Volume 162 No. 19

Oil, Paint and Drug Reporter

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Chemical Supply Gets Easier, DPA Declares

Chemicals continue to show a general softening movement, with fifty-four easing and only three tightening, the Defense Production Administration reported last week in issue No. 9 of its "List of Basic Materials and Alternates."

Of the latter, toluene was moved from group 3, the category of materials in fair to good supply, to group 1, which covers materials in short supply. Monochlorotrifluoroethylene (redesignated as polymonochlorotrifluorethylene) was shifted from group 2, which lists materials in approximate balance, to group 1. In both cases, the moves were attributed to increased military demand. Greater military use also accounted for the appearance of glycerin in group 2, previously eliminated from the list as plentiful.

Of the fifty-four chemicals reported easier, the following six, formerly in group 1, are now in group 3:—Bis-phenol; charcoal, granular (now included under charcoal); copper chemicals; methylene chloride; selenium compounds (other than those produced from electrolytic copper sludges, which remain in group 1), and sulphur. Two chemicals—alkyl polysulphide polymers and cyclohexanol—were transferred from group 1 to group 2.

Thirty-Six Chemicals Off List

There were ten shifts from group 2 to group 3. They were as follows:—Charcoal, except granular (now included under charcoal; DDT; hydrogen peroxide; sodium chlorate; sodium cyanide; sodium metal; sulphadiazine; sulphathiazole; zinc ammonium chloride, and zinc chloride. The following thirty-six chemicals were removed from the list:—

Benzene; butyric acid; cellulose; cellulose acetate; cellulose butyrate; chloro-

—*Continued on page 86*

DDT Export Rule Eased

In view of the continued improvement of the domestic supply of DDT and the previous establishment of an open end quota for this material, the Office of International Trade said November 7 that the requirement for submission of a statement of past participation in export of DDA is being discontinued when application is made for an export license.

FDA Amends Antibiotics Certification Regulations

Several changes in the regulations covering the testing and methods of assay for antibiotic preparations were announced last week by the federal Food and Drug Administration.

The order of the agency provides for a change in the iodometric assay procedure for crystalline penicillin, crystalline penicillin G, and crystalline penicillin O; a change in the method for determining the quantity of penicillin G that may be contained in penicillin O; a change in the assay procedure for polymyxin, and for the optional use of a high-speed blender in the assay of procaine penicillin in oil.

Wool Grease, Lanolin Makers Must Apply Usual Discounts

Manufacturers and processors of wool grease and lanolin must now apply customary discounts and allowances, based on terms of sale or differences in classes of purchasers, to the uniform dollars-and-cents ceiling prices for their products which have been set f.o.b. processing plant. This requirement was specified by the Office of Price Stabilization in amendment No. 1 to Ceiling Price Regulation 146, effective November 3.

CRP 146, as issued June 3, spelled out ceiling prices for various standard grades of wool grease and lanolin, when sold by manufacturers and processors in containers of 400 pounds and over, f.o.b. processing plant. The regulation authorized manufacturers and processors to add their customary differentials for sales in smaller containers, but made no provision with respect to maintenance of customary discounts and allowances.

As now amended, manufacturers and processors are required to apply the same discounts and allowances based on terms of sale or differences in classes of purchasers, as was custom during the period December 19, 1950, to January 25, 1951. The action was taken to preserve the normal industry practice and enable wholesalers, distributors and resellers to buy at discounts under the prices ordinarily charged consuming purchasers, OPS said. The move, it was added, is not expected to have any effect on the prices which consumers pay for wool grease and lanolin.

Zinc, Mercury, Cryolite Expansion Targets Revised; Four Others Set

The Defense Production Administration last week revised expansion goals for zinc, mercury and synthetic cryolite. At the same time, output targets were announced for rare earths, tetraethyl lead, manganese ores (battery and chemical grades) and metal cans along with the revision of a previous goal for metal can manufacture-tin conservation.

The revised goal for zinc has been set to provide 1,245,000 short tons in 1956. This supply includes the recoverable zinc content of domestic ore production, old scrap recovery, and the recoverable zinc content of imported ore, concentrates and metal.

Since the anticipated supply for 1956 from normal sources is estimated at 1,035,000 short tons, this goal permits government assistance, including measures already in effect, to be given to increase productive capacity by 210,000 short tons of zinc in that year. Fulfillment of the revised expansion goal will increase the annual zinc supply by 161,000 short tons over the 1950 supply of 1,084,000 short tons. The previous goal was announced in January of this year.

Revised Mercury Goal

The revised goal for mercury has been set for an annual supply of 80,000 flasks in 1953 and 1954. This is an increase of 29,361 flasks over consumption of 50,639 flasks in 1950 and an increase of 14,901 flasks over the 1950 available supply of 65,099 flasks.

Current estimates of domestic mercury production and imports indicate that supply will be adequate to meet the requirements, DPA said. Except for exploration loans under the Defense Minerals Exploration Administration Program, no financial assistance under the defense production act is to be provided to expand mercury production. The previous goal was announced in April.

The revised goal for synthetic cryolite has been set to reach an annual supply of 69,000 net tons in 1954. To provide this supply it will be necessary to increase production capacity by a total of 46,600 net tons, the agency pointed out. The previous synthetic cryolite goal was announced in June, and called for an increase in production of 21,600 tons annually by 1955. The revised goal requires an additional expansion of 25,000 tons annually. The increase in the revised goal is necessary to support the recently announced increase in the primary aluminum program, DPA stated.

Rare Earths Supply Target

The goal for the US supply of rare earths containing 50 percent rare earth oxides, has been set at 7,000 net dry tons per year in 1955. This represents an increase in annual supply, from both foreign and domestic sources, of approximately 4,600 tons over the supply in 1950. Sufficient tax amortization to fill this goal has already been approved, the agency declared.

The goal for tetraethyl lead has been set at an annual capacity of 570,000,000

—*Continued on page 86*

Sulphur Use Limitations Revoked Because of Betterment in Supply

The National Production Authority revoked the sulphur use limitation order, M-69, November 5 because of the improved supply situation. The revocation formalized a liberalized policy on sulphur use put into effect October 21 and carried out the recommendations made earlier by the producers industry advisory committee.

As originally issued June 1, 1951, M-69 limited sulphur users to 100 percent of their 1950 usage. Because the supply situation continued to deteriorate, the order was amended seven months later on January 1, 1952, to reduce the usage to 90 percent of 1950, except for certain defense and essential civilian requirements.

Since October 21 and on information from producers of an improved supply-demand condition, NPA has been granting any and all requests for sulphur for any purpose. It is not expected by officials that the lifting of controls will lead to any unusual demand for the material.

Reasons for Action

Thomas C. Keeling, jr., director of the chemical division of NPA, in announcing the action, said that revocation of the order was made possible because sulphur supply has caught up with demand, and the improved inventory position of the industry. This came about in large part, it was added, because actual consumption fell below the authorized use during the first eight months of 1952.

Estimated United States consumption of sulphur plus exports in all forms except spent sulphuric acid is expected to total 6,090,000 long tons as compared with an estimated supply (production plus imports) of 6,524,000 long tons, As a consequence, producers' and consumers' inventories are expected to rise by 434,000 long tons by the end of 1952.

Langbourne M. Williams, jr., president of Freeport Sulphur Company, who hailed the action as "an important step toward the return of a free economy," stated that in 1953 the supply of sulphur is expected to reach 7,000,000 tons and consumption and exports of 6,637,000 tons.

No Effect on Export Commitments

Mr. Keeling pointed out that removal of the limitations on sulphur inventories will make possible a wider distribution of the excess supply over consumption throughout the country. He added that the revocation of M-69 would in no way affect the ability of the United States to meet any export commitments for essential foreign needs which have been or may be assumed by the United States.

Mr. Williams commented on the action as follows:—

"The handling of the sulphur shortage which arose after the outbreak of the Korean war is a fine example of teamwork between government and industry in the national interest. It is a tribute to the wisdom and ability of Secretary of Commerce Charles Sawyer and the public-spirited businessmen he enlisted to

—*Continued on page 85*

Aluminum Industry Seen Making Further Cutback

The aluminum producers' industry advisory committee told the National Production Authority November 6 that aluminum production will decline about 40,000,000 pounds a month because of power shortages. The loss will begin to be felt November 17 when the primary aluminum producers in the Pacific northwest will suffer a 10 percent reduction in their firm power.

The industry's operations have already been reduced due to an 87½ percent cut in interruptable power in the northwest on September 3, following which it received a 100 percent cut September 15. At the end of the fourth quarter of this year the aluminum industry will have an order backlog upwards of 150,000,000 pounds, which means delays of four to six weeks in meeting customers' orders. The committee recommended the following actions to ease the situation:—

(1) Stockpiling of aluminum should be deferred in the first quarter of 1953 and further deferred until aluminum is in better supply; the order backlog should be substantially reduced to about 100,000 pounds before stockpiling is considered, and aluminum pipelines should be restored to safe levels before stockpiling begins.

(2) The government should consider withdrawing some aluminum from the stockpile to help tide consumers and fabricators over a period of temporary shortage.

(3) Attempts should be made to secure additional aluminum from Canada or abroad.

The committee agreed that the power situation will eventually resolve itself and that there will be an ample supply of aluminum beginning in the second quarter of 1953.

DPA Grants Cyanamid Tax Aid for Vaccines Production

American Cyanamid Company has been granted a certificate of necessity by the Defense Production Administration covering a $3,200,000 expansion of its facilities to produce special vaccines at Pearl River, N. Y., it was announced by the agency November 4.

No further information was disclosed as to the type of vaccines to be produced because of security regulations. The certificate permits the company to accelerate the amortization of 45 percent of the cost of the new facilities for tax purposes.

DPA also announced that a certificate has been issued to Fine Inorganics, Inc., covering $26,876 of new facilities at Lodi, N. J., for production of phenylephrine. The certificate allows the amortization of 50 percent of the cost to be accelerated.

Sulphur recovery facilities of the Gulf Oil Corporation at Philadelphia, costing $1,130,000, were certified for accelerated amortization on 70 percent of the cost, and the Arizona Chemical Company, Panama City, Fla., was granted a certificate for accelerated amortization of 45 percent of the $635,000 of new facilities to produce alphapinene, betapinene and solvents.

Fertilizer Contract Goes In Entirety to H.J. Baker

The General Services Administration awarded the entire contract to H. J. Baker & Bro., New York, for supplying nitrogenous fertilizer to Formosa under Mutual Security Agency procurement authorization No. 84-230-99-398-3407 on which bids were received October 27, it was announced last week. GSA accepted this firm's bid of $57 a metric ton, f.o.b. Rotterdam, and the material to be supplied is ammonium sulphate nitrate containing 26 percent nitrogen. The contract calls for delivery of 30,000 metric tons.

Cottonseed, Flaxseed Mixes Ceilings Deferred to Nov. 30

The date when new ceiling prices will apply to all contracts for future delivery of cottonseed and flaxseed feed mixes has been deferred for one month by the Office of Price Stabilization. Amendments to the cottonseed and flaxseed regulations provided that the new ceilings would not apply to deliveries of these mixes if they were made not later than October 31 under contracts entered into before October 3. This October 31 cutoff date has now been extended to November 30 for delivery of mixes contracted for before October 3.

OPS said the purpose of giving more time for fulfilling futures contracts entered into before October 3—before the new ceiling prices became effective—is to afford sellers of cottonseed and flaxseed feed mixes treatment similar to that given sellers of soybean meal mixes.

Botanicals New Crop Stocks Reported Low

Botanical drug warehouses in Virginia, North Carolina, Tennessee and Kentucky hold the smallest new crop inventories in a number of years. A major part of the total stocks on hand now consists of carryover from the bumper crop of 1951. The new crop is estimated at 50 percent below that of a year ago. Production this year hit an all-time low and were it not for the holdover, many domestic drugs would be unobtainable during this coming consuming year. These views of primary market collectors were obtained by OPD during a survey made in October.

The OPD reporter motored through most of the domestic collection area, and everywhere was told the same story. If the demand for domestic botanicals in the 1952-53 consuming season rises even moderately above the extremely small demand in 1951-52, it was pointed out, present inventories will not be able to cope with the call. Dealers emphasized the view that competition for the limited inventories now in store definitely would produce sharp price advances from presently depressed levels.

Demand the Key Factor

With demand the key to the future of stocks and prices, the trade view was that if interest remains at last year's very low levels, then this year's crop, despite hitting an all-time low, should be sufficient when the carryover from last year is taken into consideration. No dealer would venture a guess as to how large demand will be, but in practically all instances they stated that they have covered all contract commitments. What they do worry about is the size of the demand from non-contract buyers. In addition, dealers admitted that they had little information as to the amounts of unused inventories now held by consumers, adding that there has been only sluggish buying since the accumulation of heavy inventories following the Korean crisis.

In addition to domestic consumption in 1952-53, dealers and collectors are also concerned over export trade, business which accounts for a considerable portion of total sales. Export business in 1951-52 dropped 90 percent, an estimate made by dealers normally doing a large overseas trade. That drop alone made dealers highly cautious early in this year's buying season. For example, one dealer bought only 1,700 pounds of passion flower herb, as against purchases of 40,000 pounds a year ago. Witch hazel leaves were another illustration. Foreign dealers have shown very little interest in American

—Continued on page 63

Groggins, Farm Chemicals Chief for NPA, to Retire

Phillip H. Groggins, chief of the agricultural chemicals section of the National Production Authority, informed his friends last week that he plans to retire from government service at the end of this year and enter the field of consultant work.

He has served twenty-six years with the government, most all of it with the Department of Agriculture doing research work in the field of agricultural chemicals. During the last war he directed the fertilizer distribution program of the government, and early in the present emergency he transferred over to NPA to handle fertilizer problems under that agency.

OPS Dyestuffs Section Now Headed by Keller

Dr. Jacob L. Keller, technical assistant to the general manager of the General Aniline Works, New York, has assumed his new duties as chief of the industrial c' emicals, dyestuffs and pigments section of the Office of Price Stabilization.

Dr. Keller was formerly sales representative for Antara Products, New York, chemist in research and development in dyestuffs for General Aniline Works at Grasselli, N. J.; European representative for the General Aniline & Film Corporation, New York, and chemist for the Atlas Powder Company at its Tamaqua, Pa., research laboratory.

American Chlorophyll Names Rice Central Sales Manager

Robert L. Rice has been appointed sales manager of the central division of American Chlorophyll, it has been announced by M. M. Ricketts, vice-president and general manager of the American Chlorophyll Division of Strong Cobb & Co., Lake Worth, Fla. Mr. Rice will make his headquarters in Chicago.

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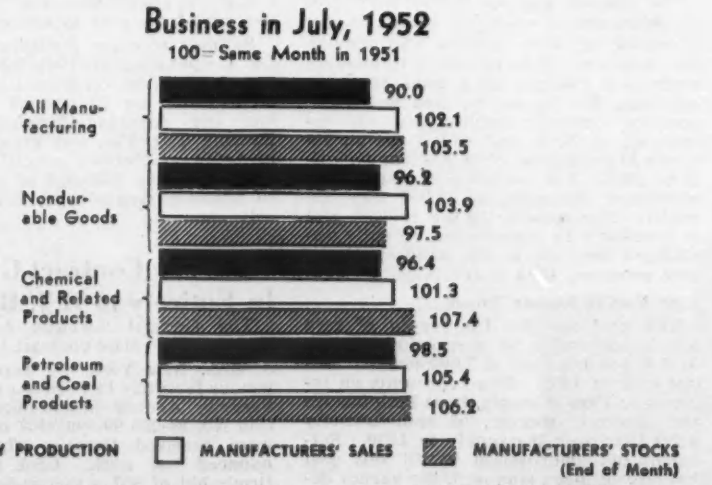
Mine Closings Cause US Concern

Jess Larson, administrator of the Defense Materials Procurement Agency, said last week that he was "gravely concerned" about the number of lead and zinc mines that have been forced to shut down in recent weeks because of the declines in prices being offered for the two metals. Mr. Larson said that a considerable number of marginal mines had already shut down. In view of present high operating costs, additional cutbacks in production are inevitable unless there is a substantial increase in prices of lead and zinc in the very near future, he declared.

"The freeing of the London lead market and reports that the British government contemplates removing its controls over the zinc market about the first of the year have had the effect of creating an artificial surplus of the two metals," Mr. Larson said.

"Actually," he asserted, "there is no surplus of production. On the contrary, unless production of both lead and zinc can be maintained at the level that prevailed prior to the recent price declines, serious shortages are almost certain to develop next year.

"The government's lead program calls for an expansion of only 2 percent by 1955 and the zinc program for an expansion of only 15 percent by 1955. These goals were based on the firmest possible estimates of future requirements of the defense program and our domestic needs. Obviously we will be confronted with serious shortages if the production contemplated in these programs is substantially reduced for any considerable period of time."



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Price Index Advances

The overall OPD price index was advanced 0.46 point last week. As in prior weeks, the oils, fats and waxes market continued to display the most price activity. This market, along with essential oils, was most influential in causing the index rise last week.

Leading the price advances in the oils, fats and waxes section were copra, and coconut and peanut oils. Also advanced were capric, caprylic, myristic and laurie acids. Although the index showed an advance in the essential oils section due to a sizable advance in neroli petale oil, prices in the overall were downward. Included among items reduced were linalool and linalyl acetate, both ex bois de rose, as well as bois de rose, caraway, coriander, Dalmatian sage and synthetic mustard oils.

Price activity in the botanicals market weighed heavily on advances. Featured as price rises in this market last week were turmeric root and red peppers in addition to cassias from Batavia and Saigon. The textile and leather chemicals market had two reported price changes, an advance in flake egg albumen and a reduction in egg yolk.

There was no reported price activity during the week in the agricultural chemicals, coal chemicals, petroleum derivatives and drugs and fine chemicals markets. The heavy chemicals market was somewhat active with an advance in lead metal and a sizable reduction in antimony. The protective coatings materials market reflected the advance in lead metal with corresponding advances in the price of red lead, litharge and orange mineral. Lead phthalate and stearate as well as both bonedry and refined grades of bleached shellac were reduced.

Except for thirty changes in botanicals listed on page 69, price changes during the past week were as follows (the numbers in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Acid, capric, 2c. per lb. (80).
Caprylic, 2c. per lb.
Coconut, fatty, 2c. per lb.
Lauric, 90%, 2c. per lb.
60%, 1c. per lb.
Myristic, 2c. per lb.
Casein, Argentine, 1c. per lb. (75).
Copra, $20 per ton (80).
Lard, ⅝c. per lb. (80).
Egg albumen, flake, 12c. per lb. (45).
Lead metal, ½c. per lb. (38).
Red, 95%, ½c. per lb. (75).
97%, ½c. per lb.
98%, ½c. per lb.
Litharge, ½c. per lb. (75).
Oil, castor, Brazilian, No. 1, ¼c. per lb. (80).
Coconut, crude, ¾c. per lb. (89).
Dillweed, 35c per lb. (71).
Linseed, 2/10c. per lb. (80).
Menhaden, crude, ½c. per lb. (80).
Neroli, petale, $10 per lb. (71).
Peanut, crude, 1c. per lb. (80).
ref., 1c. per lb.
Soybean, crude, ½c. per lb. (80).
ref., alkali, ¼c. per lb.
clarif., ¼c. per lb.
salad, ½c. per lb.
Orange mineral, ½c. per lb. (75).

Prices Reduced

Antimony metal, 4½c. per lb. (38).
Egg yolk, 1c. per lb. (45).
Lead phthalate, dibasic, 1½c. per lb. (75).
Stearate, dibasic, 2c. per lb. (75).
Linalool, ex bois de rose, 60c. per lb. (71).
Linalyl acetate, ex bois de rose, 90-92%, 20c. per lb. (71).
Oil, bois de rose, 5c. per lb.
Caraway, 50c. per lb. (71).
Coriander, 50c. per lb. (71).
Cottonseed, crude, ¼c. per lb. (80).
foots, 90%, ¼c. per lb.
ref., ¼c. per lb.
Lime, distilled, West Indian, 15c. per lb. (71).
Expressed, West Indian, 15c. per lb.
Mustard, synthetic, 10c. per lb. (71).
Oleo, 1½c. per lb. (80).
Orange, expressed, California, 10c. per lb. (71).
Florida, 10c. per lb.
Sage, Dalmatian, 10c. per lb.
Tung, ¼c. per lb. (80).
Oleo stearine, ¼c. per lb. (80).
Shellac, bleached, bonedry, 2c. per lb. (75).
refined, 2c. per lb.
Wax, ouricury, 1c. per lb. (80).

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

November 7, 1952	October 31, 1952	November 9, 1951
109.85	109.39	116.30

Celanese Names Seymour To Key Coordinating Post

G. W. Seymour, vice-president of Celanese Corporation of America, New York, last week was named to the newly-established corporation post of co-ordinator of process and technical control. In his new position, Mr. Seymour will be responsible for coordinating and maintaining liaison among the corporation's three operating divisions—textile, plastic and chemical—and affiliated companies in Canada and Latin America on all matters pertaining to process and technical control.

Dr. B. B. Allen has been appointed manager of the Summit, N. J., research laboratories. Previously he had been associate director of the laboratories.

Potash Salts Deliveries Show 3rd Quarter Gain

The six major American potash producers delivered 664,389 tons of potash salts containing an equivalent of 385,993 tons K_2O during the third quarter of 1952, an increase of 14 percent in salts and 15 percent in K_2O over the same period in 1951, according to the American Potash Institute.

Agricultural deliveries in the United States, Canada, Cuba, Puerto Rico, and Hawaii amounted to 630,631 tons of salts, equivalent to 365,052 tons K_2O, comprised of 567,134 tons of muriate of potash, 1,241 tons of manure salts, and 62,256 tons sulphate of potash and sulphate of potash-magnesia. The chemical industry took 33,460 tons of muriate of potash and sulphate of potash, containing an equivalent of 20,772 tons K_2O. Exports outside of North America amounted to 298 tons of salts containing 170 tons K_2O.

During the first nine months of 1952, total deliveries by United States producers and importers amounted to 2,225,323 tons of potash salts containing 1,284,858 tons K_2O, an increase of 7 percent in salts and 8 percent in K_2O over the corresponding period in 1951. Potash for agricultural use in the United States, Canada, Cuba, Puerto Rico, and Hawaii amounted to 1,220,437 tons K_2O contained in 2,121,538 tons of salts of which 1,907,339 tons were muriate of potash, 6,532 tons manure salts, and 207,667 tons sulphate of potash and sulphate of potash-magnesia. This represents an increase of 9 percent in salts and an increase of 10.5 percent in K_2O.

Deliveries to the chemical industry totaled 98,195 tons of muriate of potash and sulphate of potash, containing an equivalent of 61,005 tons K_2O, a decrease of 12 percent in salts and 14 percent in K_2O under 1951. Exports outside of North America amounted to 5,590 tons of salts, containing an equivalent of 3,416 tons K_2O, a decrease of 70 percent in salts and 60 percent in K_2O under the same period in 1951.

Shawinigan Resins Elects Robert Mueller President

Robert K. Mueller last week was elected president of Shawinigan Resins Corporation, Springfield, Mass. W. Roy Elliot, Shawinigan general manager, and Charles M. Schwab, a vice-president of Shawinigan Products Corporation, New York, were elected vice-presidents of the company. Charles H. Sommer, general manager of Monsanto Chemical Company's Merrimac Division, was elected a member of the board of directors.

Mr. Mueller, general manager of Monsanto's plastics division at Springfield, succeeds president F. A. Abbiati who died August 13. Shawinigan Resins Corporation, an associated company of Monsanto Chemical Company, is operated by Monsanto's plastics division in conjunction with Shawinigan Chemicals, Ltd.

Innis, Speiden Vice-Pres.

Malcolm D. Sanders has been named executive vice-president of Innis, Speiden & Co., New York, in charge of its sales program. Mr. Sanders, also a director of the firm, previously had been assistant to the president of Berkshire Chemicals, Inc., and its affiliated company, the Hamilton Laboratories, Inc. Before joining Berkshire Chemicals, he was a vice-president and director of Gallowhur Chemical Company for three years. Previously, he had been with Antara Products, division of General Aniline & Film Corporation, in a sales capacity.

Union Oil Forms Chemical Subsidiary; Reed President

Union Oil Company of California, Los Angeles, has announced the formation of Brea Chemicals, Inc., as a wholly-owned subsidiary to develop, produce and market chemicals from petroleum. Homer Reed, formerly chief engineer for Union Oil, will be president of the new chemical concern. Temporary executive headquarters have been established at Union's research center in Brea, Calif. Sales offices will be in Los Angeles. Marketing activities and personnel of Union's by-products chemical division will be transferred to the new organization.

Monsanto Co. Appoints Ord To Sales Coordination Post

Robinson Ord has been named assistant to vice-president Felix N. Williams, member of Monsanto Chemical Company's executive committee. In his new position, Mr. Ord will assist in the company's program of sales coordination. He has been with Monsanto since 1929. In 1945, after serving for five years as assistant general sales manager for the company's organic chemicals division, he was appointed general manager of sales for the division.

Growth via Research Seen Major Key to US Economy

Growth and improvement, not maturity, will characterize this nation's economy so long as our research laboratories continue active in our universities and in our industry, Crawford H. Greenewalt, president of E. I. duPont de Nemours & Co., Wilmington, Del., told the American section of the Society of Chemical Industry October 31 in accepting its nineteenth chemical industry medal. Presentation of the medal, given for "conspicuous service to applied chemistry," was made by Robert C. Swain, vice-president of American Cyanamid Company, New York, and past chairman of the American section, at a dinner in the medalist's honor at the

Crawford H. Greenewalt

Waldorf-Astoria hotel, New York, attended by 500 leaders of American industrial chemistry.

Colgate W. Darden, jr., president of the University of Virginia and past governor of that state, spoke of the accomplishments of the medalist, and Harry B. McClure, vice-president of Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, and chairman of the American section, presided.

Our research laboratories and the creative thinkers working in them are providing for us a storehouse of plenty in our present living and the greatest possible potential for our future growth, Mr. Greenewalt asserted. This represents, he said, the creative thought and achievement by individuals in science brought to fruition by industry. It comes from cooperation between original thinkers supplying the fundamental science and industry adapting it and disseminating it widely for the benefit of all men.

"The role of industry," Mr. Greenewalt

—Continued on page 35

Soap Association to Hear Romulo at Annual Meeting

Gen. Carlos Romulo, Philippine ambassador to the United States and former president of the United Nations general assembly, will speak at the banquet culminating the twenty-sixth annual convention of the Association of American Soap and Glycerine Producers, to be held January 27 to 29 at the Waldorf-Astoria hotel, New York. The impact of the United States presidential election and world conditions in 1953 on the soap and synthetic detergent business will be a principal topic of discussion at the meeting, according to Roy W. Peet, manager of the association.

Other features of the convention will deal with changing market and distribution problems affecting cleanliness products used in the home, and for industrial cleaning purposes. A special session on January 27th with fatty acids. New developments affecting glycerin will also be discussed at a special group session.

Nobel Prizes Awarded To US, UK Scientists

Two US scientists won the 1952 Nobel Prize in physics last week for their development of a new method for measuring magnetic fields in atomic nuclei. At the same time the award in chemistry went to two scientists from Britain for their discovery of a different method for separating compounds.

Dr. Felix Bloch, of Stanford University, and Dr. Edward M. Purcell, of Harvard University, were the American winners. The awards in chemistry went to Dr. Archer Martin, of the National Institute for Medical Research, London, and Dr. Richard Synge, of the Rowett Research Institute, Aberdeen, Scotland.

Chemical Trade Seen Ready for Emergency

The chemical industry is now ready for any national emergency that may arise, three key chemical leaders reported last week. They also declared that the industry's record-breaking expansion will continue despite some talk or over-extension. Their statements were made over a nationwide radio network in Washington, D. C., November 3.

Expansion of our chemical-producing facilities over the past two years has been without parallel in the nation's history, according to Dr. George E. Holbrook, former head of the chemical division of the National Production Authority. The industry's four-year program, which will result in expenditures exceeding $5,000,000,000 by 1955, is second only to the expansion plan of the steel industry, he said.

Dr. Holbrook spoke on "Production Report," an ABC network program, along with two representatives of the Manufacturing Chemists' Association, Dan M. Rugg, vice-president and general manager of the chemical division of Koppers Company, Pittsburgh, Pa., and Dr. Robert C. Swain, vice-president of the American Cyanamid Company, New York.

Sees No Stop in Expansion

Dr. Swain saw no reason for expecting the present rate of expansion in chemicals to stop. Prophets who say that the industry is over-extending itself were wrong in 1946, and they will be wrong again, he predicted.

"The chemical industry must be dynamic in self defense," Dr. Swain said. "Many times in the past a competent, well-run chemical company has found itself virtually put out of business over night by a cheaper process developed by one of its competitors. We must stay dynamic in order to survive."

Mr. Rugg noted that the emergence of the chemical industry in this country really began only since World War I, when imports of chemicals from Europe were cut off. World War II greatly accelerated the requirements for chemicals, he said, and laid the groundwork for much of the present growth. "The industry has now met all the requirements for the present defense program" he declared.

Ability to Find Alternates

Commenting on the industry's readiness to meet any emergency, Dr. Holbrook said, "I believe that the chemical industry is much more competent now than ever before to find alternate raw materials to replace those that might be cut off in the event of an international crisis.

"I also feel that the industry is definitely better prepared to grapple with difficult technical problems, and I believe we can even say that world leadership in chemistry and chemical engineering now is really a keystone in the industrial strength of the United States," he said.

In addition, Dr. Holbrook asserted, the civilian economy requires new chemical plants to bring the new and improved products of chemical research to the public. This expansion is being provided by the industry along with that for defense, he said.

Michigan Alkali Promotes Sanborn, Zorn, Thompson

Michigan Alkali Division, Wyandotte Chemicals Corporation, has announced three promotions in its home office at Wyandotte, Mich. C. F. Sanborn has been named manager of sales research and control. F. M. Zorn has been made manager of the order and scheduling department, while M. D. Thompson has become assistant director of traffic.

Mr. Sanborn's new department encompasses the former market research and sales control departments. He joined Wyandotte in 1941 and was named manager of the market research department last year. In his new post, Mr. Zorn will be in charge of order and scheduling activities for the division. Formerly assistant to the product manager of heavy alkalis and chlorine, he is a Wyandotte veteran of thirteen years. Mr. Thompson has over thirty-eight years' experience with traffic and transportation problems, twelve of them with Wyandotte.

Phenolsulphonates Plant Set For Completion After Jan. 1

Bonewitz Laboratories, Inc., Burlington, Iowa, has announced that its new facilities for the production of sodium and ammonium phenolsulphonates will be completed shortly after January 1, and that it will thereafter be in a position to offer the two chemicals. No increase in present market prices is contemplated, the company stated.

Washington Talks It Over

By Ralph L. Cherry

Price director Tighe E. Woods reported to President Truman last week on his across-the-country meetings with housewives on how they feel about price controls, and the conclusions reached by Mr. Woods were anything but startling. Here is a quick summary of the main things he learned from the meetings:—

1. Consumers are not apathetic about the rising cost of living; they are greatly concerned—especially about food prices.

2. Consumers think the present system of price control is not very effective. But most of them don't consider price control a total failure. And most of them think prices would rise faster if all controls were removed.

3. Most consumers believe that the weakness of price control is due mainly to the weakness of the law itself. They think a stronger law is needed.

4. But he found a vast lack of knowledge concerning the specific limitations of the law.

5. And he found a shocking lack of recognition that the reason we have price control is that the country is engaged in defense mobilization.

Mr. Woods, now that he has gotten the sentiments of the housewives, plans to sit down with his staff and translate what he has learned into specific legislative recommendations. And that may be as far as they will ever get. President-elect Eisenhower will have the real say on price controls and he will do his own checking on the need for the law or how strong a law it should be. This may be the first important fight of the Eisenhower administration—whether he favors a strong law, a weak law or no law at all—since a decision will have to be made by April 30 when the present price control authority expires.

Health, Profit-Sharing Plans

The Wage Stabilization Board issued some statistics recently on the volume of work that passes over its desks, which seems to throw some new light on how widely industry is employing the mechanism of health and welfare plans and pension and profit-sharing schemes for the betterment of the workers.

Since early in February, 1952, the WSM in Washington has received approximately 25,000 health and welfare and sick leave plans, and since early in April approximately 4,000 pension and profit-sharing plans have been filed. (Such plans must be submitted to the board to make certain that they do not conflict with the wage stabilization policy.) The board currently is receiving each week approximately 500 health and welfare plans and 100 pension and profit-sharing plans.

The plans filed with the board are passed on by a tripartite health and welfare committee, made up of industry, labor and public members. Harry Haas, assistant

—Continued on page 36

ISCO Heavy Chemicals for industry

Facts:

About ISCO Heavy Chemicals

Caustic Potash: liquid, solid, flake, ground. Special grades for specific applications.

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Association Meetings

American Association for the Advancement of Science, annual meeting, St. Louis, Mo., December 26-31.

American Association of Textile Technologists, annual symposium, Statler hotel, New York, February 3, 1953.

American Council of Commercial Laboratories, annual meeting, Schenley hotel, Pittsburgh, Pa., November 12-14.

American Drug Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., April 13-16, 1953.

American Institute of Chemical Engineers, annual meeting, Cleveland and Carter hotels, Cleveland, Ohio, December 7-10.

American Petroleum Institute, annual meeting, Conrad Hilton hotel and Palmer House, Chicago, November 10-13.

American Pharmaceutical Manufacturers Association, midyear meeting, Waldorf-Astoria hotel, New York, December 8-10; eastern section meetings, Roosevelt hotel, New York, February 2-4, 1953; central section meetings, Edgewater Beach hotel, Chicago, February 9-11, 1953; western section meetings, Los Angeles, February 16-17, 1953; annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., March 30-April 1, 1953.

American Standards Association, annual meeting Waldorf-Astoria hotel, New York, November 25.

Association of Soap and Glycerine Producers, annual meeting, Waldorf-Astoria hotel, New York, January 27-29, 1953.

Chemical Specialties Manufacturers Association, annual meeting, New Yorker hotel, New York, December 7-9.

Combined Contact Committee of ADMA and APMA, Washington hotel, Washington, D. C., November 18-19.

Commercial Chemical Development Association, Statler hotel, Cleveland, Ohio, January 22, 1953; annual meeting, Statler hotel, New York, March 23-24, 1953.

Drug, Chemical and Allied Trades section of the New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 5, 1953.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 20-22.

Magnesium Association, annual meeting, Biltmore hotel, New York, November 10-11.

Manufacturing Chemists Association, semi-annual meeting and winter conference, Statler hotel, New York, November 25.

National Agricultural Chemicals Association, spring meeting, Jung hotel, New Orleans, La., March 11-13, 1953.

National Fertilizer Association, fall meeting, Roney Plaza hotel, Miami Beach, Fla., November 19-21.

National Foreign Trade Council, Waldorf-Astoria hotel, New York, November 11-19.

National Paint, Varnish and Lacquer Association, annual convention, Palmer House, Chicago, November 17-19.

Plant Maintenance Conference, in conjunction with Plant Maintenance Show, Public Auditorium, Cleveland, Ohio, January 19-22, 1953.

Salesmen's Association of the American Chemical Industry; Christmas party, Waldorf-Astoria hotel, New York, December 10.

Society of Cosmetic Chemists, semi-annual meeting, Biltmore hotel, New York, December 11.

Society of Plastics Engineers, annual technical conference, Statler hotel, Boston, January 21-23, 1953.

Southern Paint and Varnish Production Club, annual meeting, Buena Vista hotel, Biloxi, Miss., March 18-21, 1953.

Synthetic Organic Chemical Manufacturers Association, monthly meeting, Commodore hotel, New York, November 12; annual business meeting and dinner, Commodore hotel, New York, December 3.

Textile Research Institute, annual meeting, Commodore hotel, New York, November 17-18.

Int'l Color Fastness Parley Opens in New York Today

Representatives from Canada, France, Germany, India, Switzerland, and the United Kingdom will open a two-day meeting with American experts in New York today to discuss international standards for color fastness. The national standards bodies of these countries are members of the International Organization for Standardization. The New York meeting will consider such factors as the effect of light and washing on color fastness. Progress toward the development of international standards in this field is expected to result from the conference, which will take place at the headquarters of the American Standards Association. L. S. Little, representing the American Association of Textile Chemists and Colorists, is chairman of the American delegation.

New York APhA Meets Tonight; Sullivan Speaker

The New York branch of the American Pharmaceutical Association will meet tonight at 8:30 in Thebaud Hall, Fordham University College of Pharmacy, 190th street and East Fordham road, Bronx, N. Y. Speaker will be Dr. Cornelius Sullivan, of the medical division, Ciba Pharmaceutical Products, Inc., Summit, N. J., who will outline "Progress in the Drug Therapy of Hypertension." Prof. Ross J. Marano, head of the department of physiology and pharmacology of Fordham's College of Pharmacy, and chairman of the branch, will preside.

Oils, Fats Output, Use: September

Statistics on production and consumption of oils, and fats, including raw materials and primary products have been compiled by the Bureau of Census, Department of Commerce, for the month of September. The data are as follows:—

Primary Products

	Pounds		
	Production	Consumption	Stocks Sept. 30
Animal foots from refining; 100% basis	2,148,000	2,404,000	4,724,000
Babassu oil, crude	.....	[1]	50,000
refined	.....	[1]	.....
Castor oil, No. 1	4,269,000	6,000,000	[2]14,358,000
No. 3, crude	1,353,000	1,884,000	[2]8,572,000
Chinawood or tung oil	.....	3,970,000	9,896,000
Coconut oil, crude	41,096,000	56,545,000	[2]46,974,000
refined	38,003,000	34,112,000	7,616,000
Cod and codliver oil	260,000	1,307,000	4,858,000
Corn oil, crude	19,933,000	19,615,000	8,606,000
refined	17,187,000	18,035,000	3,408,000
Cottonseed oil, crude	156,459,000	77,223,000	103,809,000
refined	71,655,000	103,262,000	[2]288,212,000
Fish and marine mammal foots, 100% basis	[1]	241,000	1,098,000
Fish oil, refined	[1]	2,277,000	2,176,000
Fish oil, not specified, except liver oil	2,075,000	1,215,000	8,403,000
Fishliver oil, not specified	23,000	360,000	1,142,000
Grease, other than wool	42,828,000	37,100,000	107,177,000
Lard, rendered[3]	166,000,000	[4]13,445,000	106,124,000
refined[5]	116,000,000	12,042,000	37,099,000
Linseed oil, raw	46,702,000	51,841,000	616,537,000
refined	22,096,000	23,331,000	32,164,000
Marine mammal oil, not specified	.....	[1]	111,000
Menhaden oil	10,326,000	3,470,000	41,636,000
Neatsfoot oil	132,000	349,000	905,000
Oiticica oil	.....	890,000	5,643,000
Olive oil, edible	.....	228,000	5,894,000
inedible	.....	7,000	342,000
sulphur foots	.....	[1]	2,770,000
Palm oil, crude	.....	3,425,000	[2]23,174,000
refined	[1]	583,000	696,000
Palm kernel oil, crude	.....	830,000	[1] .....
refined	715,000	720,000	[1] .....
Peanut oil, crude	4,144,000	7,761,000	4,564,000
refined	6,969,000	4,598,000	5,776,000
Perilla oil	.....	.....	[1] .....
Rapeseed oil, crude	.....	[1]	[1] .....
refined	.....	344,000	2,094,000
Sardine (Pilchard) and herring oil	223,000	3,114,000	14,891,000
Sesame oil, crude	[1]	[1]	[1] .....
refined	[1]	[1]	332,000
Soybean oil, crude	155,632,000	180,247,000	93,287,000
refined	166,542,000	187,775,000	96,046,000
Sperm oil	.....	2,297,000	[2]18,692,000
Tallow, edible	9,237,000	6,425,000	5,443,000
refined	1,074,000	957,000	421,000
inedible	115,471,000	90,363,000	217,171,000
refined	21,930,000	20,083,000	15,446,000
Vegetable oil, not specified, crude	3,490,000	2,362,000	12,818,000
refined	1,417,000	1,000,000	1,684,000
Vegetable foots, 100% basis	18,952,000	13,436,000	46,023,000
Whale oil	.....	[1]	257,000
Wool grease	772,000	[6]	[6]457,000

Primary Products Except Oil

		Production	Shipments and transfers	Stocks Sept. 30
Cottonseed cake and meal	tons.	248,660	214,679	81,857
hulls	tons.	106,944	90,475	42,244
linters	running bales.	[10]167,747	96,299	[11]183,955
hull fiber	lbs.	1,199,000	805,000	1,171,000
motes and grabbots	lbs.	2,362,000	1,454,000	4,177,000
Soybean cake and meal	tons.	351,374	363,565	51,546
Lecithin	lbs.	1,405,000	1,586,000	1,409,000
edible soy flour, full fat	tons.	541	596	263
other	tons.	4,344	4,195	1,038
industrial soy flour	tons.	1,475	1,810	690
Other cake and meal—				
Castor beans	tons.	3,267	3,136	5,338
Copra	tons.	11,378	8,937	6,943
Corn germ	tons.	12,997	13,188	637
Flaxseed	tons.	42,334	39,311	17,314
Olive	tons.	[12]	[12]	.....
Peanut	tons.	3,203	3,170	375
Tung nut	tons.	.....	.....	.....
Other	tons.	4,860	4,057	3,643

Secondary Products

	Pounds		
	Production	Consumption	Stocks Sept. 30
Animal fat and oil fatty acids	10,319,000	11,528,000	15,196,000
Castor oil, chemically dehydrated	1,934,000	1,445,000	4,294,000
Deodorized oil[13]	20,776,000	10,220,000	7,640,000
Fatty acid stock, including spent and salvaged oils and fats, palm oil, refuse, etc. (100% fatty acid basis)	479,000	779,000	2,898,000
Fatty acids from fractionating or pressing—			
Oleic acid	3,777,000	3,629,000	[14]13,485,000
Stearic acid	4,368,000	5,204,000	[15]10,305,000
Other acids	3,387,000	502,000	6,047,000
Fish and marine mammal fatty acids	35,000	225,000	663,000
Glycerin, chemically pure (100% basis)[16]	10,040,000	7,991,000	17,173,000
crude (100% basis)[16]	15,664,000	18,410,000	10,346,000
high gravity and yellow distilled (100% basis)	7,279,000	6,975,000	12,066,000
Grease oil and lard oil	4,184,000	2,713,000	7,139,000
Hydrogenated oil and fats, edible—			
Cottonseed	43,774,000	40,116,000	16,950,000
Soybean	83,739,000	79,541,000	19,004,000
Other	6,351,000	4,306,000	2,426,000
Inedible—			
Animal	2,613,000	1,842,000	2,050,000
Vegetable	[4]	1,461,000	1,497,000
Fish	[4]	2,142,000	4,343,000
Oleomargarine	125,694,000	[8]	18,615,000
Oleo oil	4,175,000	696,000	1,887,000
Shortening	140,171,000	604,000	74,126,000
Solid fatty acids produced by splitting hydrogenated fats and oils or by hydrogenation of fatty acids	3,375,000	2,349,000	[17]6,981,000
Stearin, animal, edible	2,216,000	1,610,000	2,396,000
inedible	1,285,000	1,779,000	1,734,000
vegetable oil, winter	7,967,000	10,199,000	17,460,000
Tall oil, crude	25,360,000	19,844,000	67,234,000
refined, including distilled and fractionated tall oil	8,354,000	6,454,000	16,245,000
Tallow oil	916,000	835,000	2,602,000
Vegetable oil fatty acids from foots and other than from foots	11,165,000	12,716,000	24,367,000
Winterized oil	42,275,000	26,434,000	27,188,000

Raw Materials at Mills

	Tons		
	Receipts	Crushings	Stocks Sept. 30
Castor beans	2,721	6,011	1,551
Copra	29,050	32,550	10,070
Corn germs	23,979	24,524	1,113
Cottonseed	1,173,465	524,850	1,034,875
Flaxseed	111,162	64,496	132,909
Olives	.....	.....	.....
Peanuts, shelled	6,073	3,795	3,030
unshelled	[12]	[12]	[15] .....
Soybeans	529,481	449,065	352,536
Tung nuts	.....	.....	.....
Other	7,462	9,192	3,503

[1] Included in "other vegetable oils" to avoid disclosure of figures for individual companies.
[2] Data for stocks of crude palm oil, crude coconut oil, castor oil No. 1 and No. 3, and sperm oil are on a commercial stocks basis and do not include figures for stockpiles of strategic oils.
[3] Includes 109,966,000 pounds owned by Commodity Credit Corporation.
[4] Not shown to avoid disclosure of figures for individual companies.
[5] Data on production collected by the Department of Agriculture. Refined lard production data represent Federally inspected lard. Lard stocks include quantities held in refrigerated storage amounting to 106,683,000 pounds for September 30, 1952, as reported by the Department of Agriculture.
[6] Excludes quantities used in refining.
[7] Included in "Sperm Oil".
[8] Data not available.
[9] Held by wool scourers.
[10] Includes 41,224 bales first cut, 112,876 bales second cut, and 13,647 bales mill run. Average gross bale weights:—Total, 599.7; first cut, 584.9; second cut, 607.5; and mill run, 580.1 pounds.
[11] Includes 39,483 bales first cut, 129,011 bales second cut, and 15,461 bales mill run.
[12] Included in "other" to avoid disclosure of figures for individual companies.
[13] Winterized-deodorized oil, hydrogenated-deodorized oil and cooking and salad oil not included.
[14] September data include 7,464,000 pounds held by producers.
[15] September data include 3,743,000 pounds held by producers.
[16] Includes data for synthetic glycerin.
[17] September data include 4,142,000 pounds held by producers.

NPVLA Shapes Agenda For Meeting in Chicago

The National Paint, Varnish and Lacquer Association has announced the program for its sixty-fourth annual convention, which will be held in the Palmer House, Chicago, November 17 to 19. The convention will also afford those attending an opportunity to visit the Paint Industries Show, which opens November 19 at the Palmer House.

At the opening session President Joseph F. Bettley will preside and the delegates will be welcomed by C. C. Pettet, president, Canadian Paint, Varnish and Lacquer Association; Charles Gerbig, president, National Paint Salesmen's Association; J. W. Zucker, president, Painting and Decorating Contractors of America; S. Robert Frazee, president, Retail Paint and Wallpaper Distributors of America, and W. F. Warren, director, American Tung Oil Association.

Following this, Bernhard Mautz, vice-president, will preside at a business session which will include Mr. Battley's address and a talk on "Blueprint for Freedom" by Dr. Clarence Manion, former dean of the Notre Dame law school.

"New Uses for Lacquer"

On November 18 there will be a general session in the morning, with Joseph A. Hager, chairman, industrial products finishes steering committee, presiding. "New Uses for Lacquer" will be the subject of a panel discussion, with Dr. F. G. Weed serving as chairman. Participating will be:—R. I. Wray, aluminum research laboratories, Aluminum Company of America; J. W. Halley, research and development department, Inland Steel Company; B. E. Clatworthy, Radio Corporation of America and chairman of the subcommittee on materials for wood finishing, Forest Products Research Society, and R. S. Temple, research and development board, Department of Defense. Following this, Leo M. Cherne, executive director, Research Institute of America, will speak on "Nineteen Fifty-Three."

In the afternoon the putty and caulking compound manufacturers' forum will be held, with John M. Dicks presiding. The following papers will be presented:—"Federal and State Specifications for Putty and Other Glazing Materials," C. B. Frobes; "Mixing and Filling Equipment Used in Manufacturing of Putty and Other Glazing Materials," H. Wesley Hibbert; "How Can We Promote Sales Through Better Merchandising?" Mr. Dicks, and "Common Glazing Problems and Their Correction," Ronald Brown.

Trade Sale Manufacturers' Forum

The trade sale manufacturers' forum will be held concurrently, with Wilbur L. Rice presiding. The program will include the following papers:—"What Can We Do to Help Our Distributors Merchandise Our Products?" A. P. Barberi, trade sales committee, New York PVLA; "Where Can the Industry Go With Color?"

—Continued on page 36

APMA 1952 Scientific Award to Go to PHS

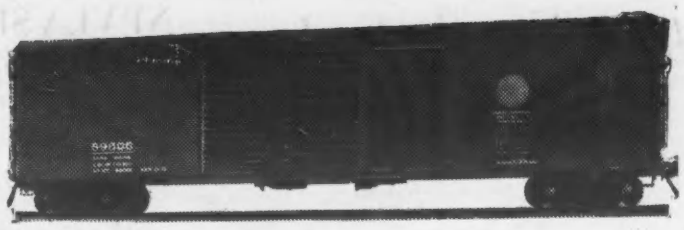
The American Pharmaceutical Manufacturers Association will honor the Public Health Service with its 1952 scientific award at its midyear meeting, to be held December 8 to 10 at the Waldorf-Astoria hotel, New York. The award will be presented at the annual dinner on the night of the ninth to Dr. Leonard A. Scheele, Surgeon General of PHS.

The presentation will be made by Dr. Martin Lasersohn, executive vice-president of Winthrop-Sterns, Inc., New York, who is chairman of AMPA's scientific and research award committee. M. F. Charley, president of Standard Pharmacal Company, Chicago, and of the association, will preside at the banquet session.

The citation accompanying the award to PHS will state that it is being presented "in recognition of numerous basic laboratory and clinical research contributions and for American and world-wide health services all of which have so greatly improved human health and well being."

SOCMA Schedules Talk On US Customs Labs Wed.

The Synthetic Organic Chemical Manufacturers Association will hold its regular monthly luncheon meeting on Wednesday at the Commodore hotel, New York. Cocktails will be served at 12:15 p.m., with dinner following one-half hour later. Speaker will be John F. Williams, chief of the division of laboratories, Bureau of Customs. Mr. Williams will discuss "The Function of US Customs Laboratories in Relation to Chemical Imports."



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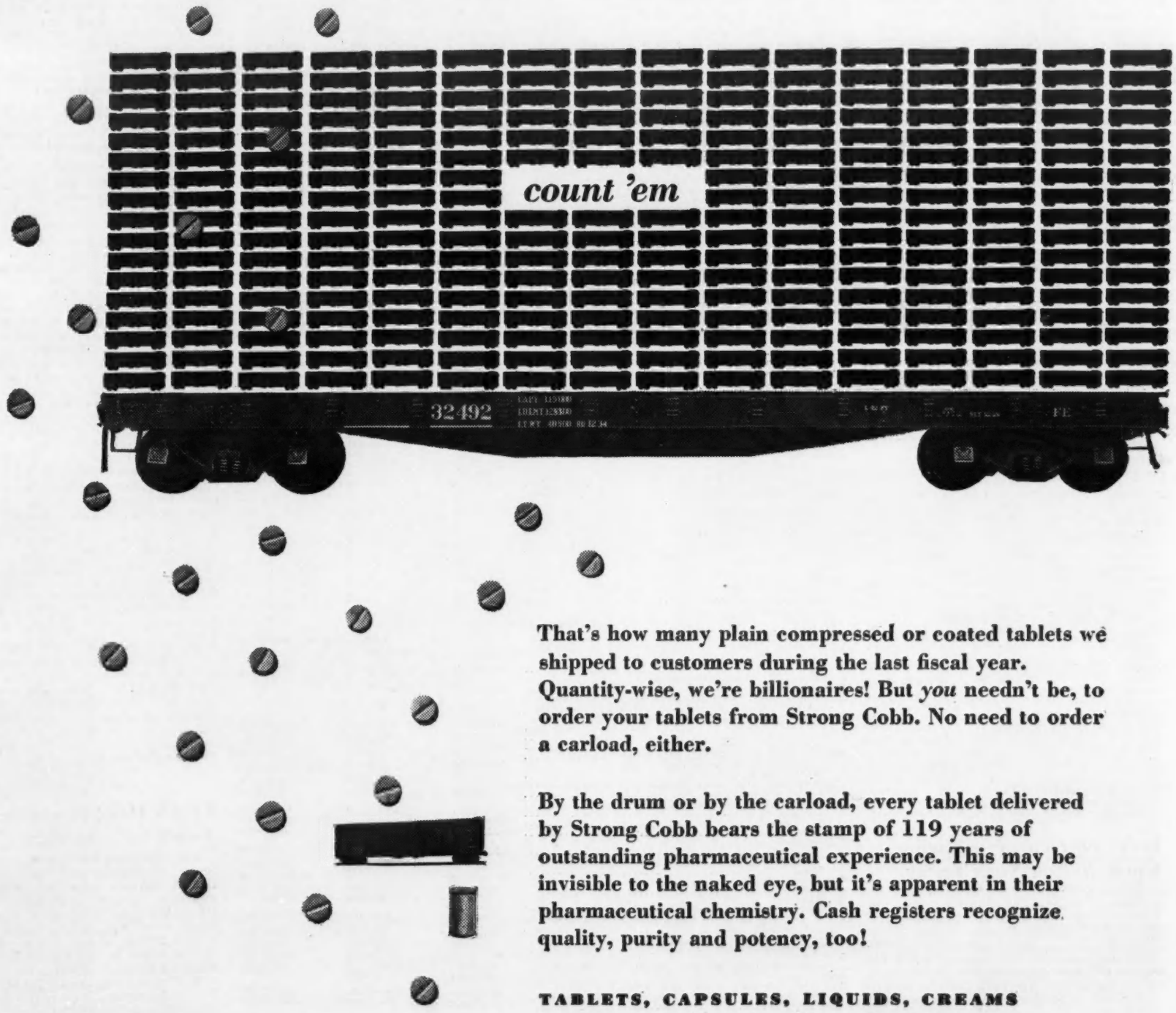

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, November 7 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).			
Acenaphthene below 92.5 C., m.p., dms. works	lb.	.40	—
over 92.5 C., m.p., bbls., dms., works	lb.	.41	.50
Acetaldehyde, 99% dms., c.l., frt. equald	lb.	.1250	.1433
l.c.l., frt. equald	lb.	.1350	.1535
tanks, frt. equald	lb.	.1050	.1300
Acetaldol (see Aldol)			
Acetanilide, tech., bbls., c.l., dlvd.	lb.	.26½	—
l.c.l., ton lots	lb.	.27½	—
smaller lots	lb.	.30½	—
USP, bbls., 2,000-lb. lots	lb.	.61	—
smaller lots	lb.	.62	.67
Acetic, anhydride, dms., c.l., dlvd. E	lb.	.16	—
l.c.l., frt alld E	lb.	.17½	—
tanks, frt. alld. E	lb.	.14½	—
Acetoacetanilide, fib. dms., c.l. dlvd.	lb.	.73	—
l.c.l., dlvd	lb.	.74	—
Acetoacetorthochloroanilide, fib. dms., c.l., dlvd	lb.	1.14	1.22
l.c.l., dlvd	lb.	1.15	1.23
Acetoacetorthotoluidide, fib. dms., c.l., dlvd	lb.	.78	—
l.c.l., dlvd	lb.	.79	—
Acetone, CP dms., c.l., dlvd	lb.	.10¼	.11¾
l.c.l., dlvd	lb.	.11	.12½
tanks, dlvd	lb.	.08½	.10
Methyl (see M)			
Acetonitrile, dms., c.l., works	lb.	.45	—
l.c.l., works	lb.	.47	—
Acetophenetidin USP, bbls., works, frt equald	lb.	1.15	1.38
Acetophenone, cns. dms	lb.	1.35	1.65
tech., dms., l.c.l., works	lb.	.75	—
Acetyl (N) para-aminophenol, dms., frt. adjusted	lb.	1.50	1.60
Acetyltributyl citrate, tech., dms., c.l	lb.	.37½	—
l.c.l	lb.	.38½	—
tanks	lb.	.36	—
Acetyltriethyl citrate, tech., dms., c.l	lb.	.37½	—
l.c.l.	lb.	.38½	—
tanks	lb.	.36	—
Acid, abietic, com'l, dms., c.l., works	lb.	.12	—
l.c.l., works	lb.	.1390	—
cryst., dms., c.l., works	lb.	.06½	—
l.c.l., works	lb.	.07	.07½
Acetic, com'l or redist., 28%, bbls 100 lbs.		5.50	—
56%, bbls	100 lbs.	9.65	—
70%, bbls	100 lbs.	11.70	—
80%, bbls	100 lbs.	12.45	—
glacial, synthetic, CP, dms., works 100 lbs.		15.00	16.00
cbys., inclusive, works 100 lbs.		24.00	25.00
tech., dms., c.l., works 100 lbs.		10.50	12.50
l.c.l., works 100 lbs.		11.00	13.50
tanks, works 100 lbs.		9.00	11.50
USP, dms., works 100 lbs.		13.50	14.50
Acetic anhydride (see Acetic anhydride above).			
Acetylsalicylic, USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots	lb.	.60	—
standard, fine cryst., gran., (30-40 mesh) powd. (80 mesh), bbls same basis,	lb.	.55	—
Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.			
Adipic, fib. dms., works	lb.	.30½	—
Aminoacetic, NF, bbls., frt. adjusted	lb	1.50	1.75
Anthranilic, resub. bbls	lb.	2.10	—
tech., bbls., frt. equald	lb.	1.10	—
Arsenous, tech (see Arsenic, white).			
USP (see Arsenic trioxide).			
Ascorbic, USP dms., 25-50 kilo lots	kilo.	24.50	—
10-kilo lots	kilo.	24.85	—
5-kilo lots	kilo.	25.25	—
bots., 1-kilo lots	kilo.	25.50	—
500-gram lots	kilo.	26.00	—
Battery, cbys., c.l., works, E.	100 lbs.	2.40	—
l.c.l., works, E	100 lbs.	2.50	8.20
Benzoic, tech., bbls., dms., 100-lb. lots or more	lb.	.425	.450
USP, bbls., dms., 100-lb. lots or more	lb.	.525	.540
Betahydroxynaphthoic (see Acid, betaoxynaphthoic).			
Betaoxynaphthoic, bbls., works	lb.	1.14	—
Boric, tech., 99½% cryst., bgs., c.l., works	ton.	120.75	—
ton lots, ex whse., N. Y. or Chi	ton.	166.50	—
less ton lots same basis,	ton.	171.50	—
bbls., c.l., works	ton.	145.25	—
ton lots, ex whse., N. Y. or Chi	ton.	191.00	—
less ton lots same basis,	ton.	196.00	—
bulk, c.l., works	ton.	116.75	—
gran., bgs., c.l. works	ton.	95.75	—
ton lots, ex whse., N. Y. or Chi	ton.	141.50	—
less ton lots same basis,	ton.	146.50	—
bbls., c.l., works	ton.	120.25	—
tan lots, ex whse., N. Y. or Chi	ton.	166.00	—
less ton lots same basis,	ton.	171.00	—
bulk, c.l., works	ton.	91.75	—
powd., bgs., c.l. works	ton.	100.75	—
ton lots, ex whse., N. Y. or Chi	ton.	146.50	—
less ton lots same basis,	ton.	151.50	—
bbls., c.l., works	ton.	125.25	—
ton lots, ex whse., N. Y. or Chi	ton.	171.00	—
Acid, boric, powd., bbls., less ton lots, same basis	ton.	176.00	—
bulk, c.l. works	ton.	96.75	—
USP $25 per ton higher.			
Broenner's, bbls	lb.	1.47	—
Butyric, 99%, dms., c.l., works,	lb.	.34	—
l.c.l., works	lb.	.34½	—
tankcars, works	lb.	.32½	—
Cacodylic, bots	lb	10.50	13.00
Camphoric natural, dms	lb	4.00	4.75
synth., dms	lb	4.00	4.75
Capric, 90%, dms	lb.	.32½	.33½
Caprylic, 90%, dms	lb.	.32½	.33½
Cassello dms frt alld	lb	1.44	—
Castor oil, split, dms	lb.	.33½	.33¾
Chicago, bbls. frt alld	lb.	3.21	—
Chlorosulphonic, dms., c.l., frt. equald	lb.	.039	—
l.c.l. frt equald	lb.	.044	.059
tanks, frt equald	lb.	.034	—
Chromic, 99½-99¾%, dms., c.l., works	lb.	.27	.27½
l.c.l., works	lb.	.27½	.28½
NF (see Chromium trioxide)			
Cinnamic, refd, bots	lb	3.50	3.50
Citric, anhyd., gran., fine gran., dms., c.l	lb.	.26½	—
10,000-lb. lots, 1 ship't.	lb.	.27	—
smaller lots	lb.	.27½	—
kgs.	lb.	.28½	—
USP, gran. fine gran., dms., c.l	lb.	.24½	—
10,000-lb. lots, 1 ship't.	lb.	.25	—
smaller lots	lb.	.25½	—
kgs.	lb.	.26½	—
Anhydrous and USP powdered citric, ½c. per lb. higher.			
Cleve's, mixed bis	lb.	.79	—
Coconut oil, dist., dms	lb.	.21¾	—
tankcars	lb.	.20	.20½
double dist., dms	lb.	.23¼	.24½
tankcars	lb.	.21½	—
Cottonseed oil, dist., dms	lb.	.11¼	.12½
double dist., dms	lb.	.11¾	.13
Cresylic, coaltar, dom., 50% above 210°C. non-ret. dms., c.l., frt. equald	gal.	1.06	—
l.c.l., same basis	gal.	1.09	—
ret. dms. c.l. same basis	gal.	1.06	—
l.c.l., same basis	gal.	1.09	—
tanks, same basis	gal.	.95	—
207° to 210° C., dms., c.l., same basis	gal.	1.16	—
l.c.l., same basis	gal.	1.19	—
tanks, same basis	gal.	1.05	—
204° to 207°C. non-ret. dms., c.l., same basis	gal.	1.21	—
l.c.l., same basis	gal.	1.24	—
ret. dms. c.l. same basis	gal.	1.21	—
l.c.l., same basis	gal.	1.24	—
tanks, same basis	gal.	1.10	—
Acid, cresylic, coaltar, imp., 75% at 215°C. or over, dms., ex whse	gal.	.85	1.00
petroleum, dom. 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles	gal.	.71	—
l.c.l., same basis	gal.	.73	.75
tanks, same basis	gal.	.58	—
200° C to 222° C, tanks, Wilmington, Cal	gal.	.58	.63
211° C to 236° C, non-ret. dms., c.l., San Francisco and Los Angeles	gal.	.63	—
l.c.l., same basis	gal.	.65	.67
tanks, same basis	gal.	.50	—
220° C to 242° C, tanks, Wilmington, Cal	gal.	.50	.53
245° C to 298° C, tanks, Wilmington Cal	gal.	.48	—
Crotonic, fib. dms., works	lb.	.45	—
Cyanoacetic, tech., bbls	lb.	.90	1.25
Desoxycholic, bots	lb.	22.00	Nom.
Dichlorophenoxyacetic (see under "D" 2,4-D).			
Diethylbarbituric (see Barbital)			
Diglycolic, bgs., works	lb.	.14	—
Ethylhexoic, dms., c.l., works	lb.	.35	—
l.c.l., works	lb	.35½	—
tanks, works	lb	.33½	—
F, crude, paste, bbls., works	lb.	1.67	—
Folic, bots, fib cns, kilo or more	gram	1.60	—
Formic, 85% cbys., c.l., works	lb	.142	.17
l.c.l., works	lb.	.14½	.22
90%, cbys., c.l., works	lb.	.1475	.1750
l.c.l., works	lb.	.15	.23½
Fumaric, tech., bbls, dms	lb	.37	.38
Gallic, NF VII, bbls., 1,000-lb. lots,	lb	1.80	—
smaller lots	lb	1.82	2.00
technical, bbls., 1,000-lb. lots	lb	1.58	—
smaller lots	lb.	1.69	1.78
Gamma, dry, ground, bbls., frt. alld	lb	1.50	—
paste, bbls., frt. alld	lb	1.45	—
Gentisic, 100-lb fib. dms	lb	8.50	—
Gluconic, tech., 50% bots	lb	.23½	.31½
dms	lb.	.14½	—
cbys.	lb.	.17½	—
Glutamic 99½% laevo, fib. dms., 100-lb lots, works	lb	2.45	2.53
25-lb. lots, works	lb.	2.60	2.68
Glycerophosphoric, 35%, dms., works	lb	2.25	2.35
Glycolic (see Acid hydroxyacetic)			
H, basis 100%, bbls., works	lb.	.82	—
Hydriodic, 1.50 s.g. cbys	lb	2.67	—
1.70 s.g. cbys	lb	2.98	—
Hydrobromic, medicinal, 48%, cbys., dlvd E	lb	.37	.43
Hydrochloric (see Acid, muriatic).			
Acid, hydrocyanic, cyls., works	lb.	1.15	—
dilute, NF, 2%, 5-lb. bots	lb.	.40	—
Hydrofluoric, anhyd., cyls., works,	lb.	.24	.33
tanks, works	lb.	.18	—
70%, steel dms., works	lb.	.1535	.1958
Hydrofluosilicic, 30-35%, bbls., works	lb.	.07	—
Hydroxyacetic, tech. 70%, bbls., non-return., Phila., basis 100%	lb.	.12	—
tanks, Belle, W Va., basis 100%	lb.	.083	—
Hypophosphorous, purif., 50%, cbys	lb.	1.30	1.32
USP, cbys	lb	85	—
Isonicotinic, 100 lb. fib. dms, works	lb.	10.00	—
J, bbls., works, basis 100%	lb.	2.50	2.85
Koch, bbls. frt. alld	lb.	.64	.70
L, bbls frt alld	lb.	1.25	—
Lactic, edible, 50% bbls., 20 or more	lb.	.17	.20
smaller lots	lb.	.17½	.21
80%, bbls., 5 or more	lb.	.30	.3640
less than 5 bbls	lb.	.305	.3690
plastic grade, 50% bbls., 20 or more works	lb.	.21¾	—
1 to 19	lb.	.22¼	.23¾
88% bbls., 5 or more	lb.	.3815	—
tech., 22%, bbls., c.l., works,	100 lbs.	6.30	—
l.c.l., works	100 lbs.	6.70	—
cbys., works	100 lbs.	7.20	12.20
44%, bbls., c.l., works	100 lbs.	11.45	11.95
l.c.l., works	100 lbs.	11.85	12.50
NF, 85%, cbys	lb.	.85	.88
Laurent's, bbls	lb	.60	.87
Lauric, 90%, dms	lb.	.31¾	.33
60%, dms	lb.	.22¼	.23¼
Linseed oil, dist., dms	lb.	.2145	.2193
water-white, dms	lb.	.2445	.2493
Maleic, cryst. powd., dms	lb.	.37	.38
Malic, tech., dms	lb.	.50	—
Mandelic, NF, dms., 1,000-lb. lots,	lb	2.35	—
smaller lots	lb.	2.40	2.50
Metanilic, dms., works	lb.	.57	.75
Methacrylic, dms., c.l., and truckloads, works	lb.	.76	—
less than truckload, works	lb	.76½	.80
Molybdic, dms, 85-92% works	lb.	1.40	1.53
Monochloroacetic, purified, flake, 99%, dms	lb.	.23½	.25¼
tech., flake, 96-97%, dms	lb.	.20	.22
Muriatic, 18° cbys., c.l. works, 100 lbs.		2.45	2.80
l.c.l., dlvd. Metropolitan area 100 lbs.		3.50	4.30
tanks, works	ton.	25.00	29.00
20°, cbys., c.l., works 100 lbs.		2.70	3.05
l.c.l., dlvd. Metropolitan area 100 lbs.		3.50	4.30
tanks, works	ton.	27.00	33.00
22°, cbys., c.l., works 100 lbs.		3.30	3.40
l.c.l., dlvd. Metropolitan area 100 lbs.		3.50	4.30
tanks, works	ton.	32.00	36.00
CP, USP consumers, cbys., extra, c.l., works	lb.	.11¾	—
l.c.l., same basis	lb.	.13¼	.13¾
5 pint bottles, extra, cs., c.l., same basis	lb.	.16¾	—
l.c.l., same basis	lb.	.19¼	—
Acid, muriatic, CP, USP, prices to dealers 1½c per lb less.			
Myristic, dms	lb.	.26¾	.28
Naphthenic, 220-230 acidity, dms., works	lb.	.14	—
tanks, works	lb.	.12	—
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)			
Naphthol(1)-5-sulphonic (see Acid, L).			
Naphthol(1)-5-sulphonic,3-amino (see Acid, S).			
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).			
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).			
(2)-7-Sulphonic,2-amino (see Acid, J).			
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)			
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)			
(2)-6-sulphonic (see Acid, Broenner's).			
(2)-7-sulphonic (see Acid, F).			
(2)-1-sulphonic (see Acid, Tobias).			
Neville and Winther's, dms., frt. alld	lb.	1.03	—
Nicotinic USP dms. frt. adjusted	kilo.	9.00	9.30
Amide (see Nicotinamide).			
Nitric 36° Be cbys., c.l., works, E. 100 lbs.		5.00	—
l.c.l., works E 100 lbs.		5.30	11.10
38° Be cbys., c.l., works E 100 lbs.		5.50	—
l.c.l., works E 100 lbs.		5.80	11.60
40° Be cbys., c.l., works E 100 lbs.		6.00	6.50
l.c.l. works E 100 lbs.		6.30	12.10
42° Be cbys., c.l., works E 100 lbs.		6.50	7.00
l.c.l., works E 100 lbs.		6.80	12.60
60% HNO_3, tanks, works, basis 100% 100 lbs.		3.25	—
95% HNO_3, tanks, works, basis 100% 100 lbs.		4.25	—
CP, NF consumers, cbys., extra c.l. works	lb.	.13½	—
l.c.l., same basis	lb.	.15	.15¼
5 pint bottles, extra, cs., c.l., same basis	lb.	.17¼	—
l.c.l. same basis	lb.	.19	.25
Oleic, single distilled, dms	lb.	.13½	.14¾
tanks	lb.	.11¾	—
double distilled (white), dms	lb.	.16	.17¼
tanks	lb.	.14¼	—
Oleum (see Acid, sulphuric, fuming).			
Orthochlorobenzoic, fib. dms., works	lb.	1.13	—
Orthocresotinic, dms., ton lots, works	lb.	.68	—
smaller lots, works	lb.	.68	—
Oxalic, bbls., c.l., works	lb.	.1575	.1590
10,000-lb. lots, works	lb.	.16	.1613
smaller lots, works	lb.	.17	.1713
Palm oil, white, dist., dms	lb.	.16¼	.17

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dest-dist.	destructive-distilled	neut.	neutral
		dextro	dextrorotatory	NF.	National Formulary
alld.	allowed	dist.	distilled		
ammo.	ammonia	distr.	distributor	No.	number
amorph.	amorphous	djns.	demijohns	nom.	nominal
AMP.	American melting point	dlvd.	delivered	ord.	ordinary
		dms.	drums	oz	ounce
anhyd.	anhydrous	dom.	domestic	Pac.	Pacific
a.p.a.	available phosphoric acid	E	east	pf.	proof
		e.p.	end point	phos.	phosphate
artif.	artificial	equald.	equalized	photo.	photographic
ASTM.	American Society for Testing Materials	F	fahrenheit	pkgs.	packages
		ferment.	fermentation	powd.	powdered
		ffa.	free fatty acid	precip.	precipitated
Be.	Baume	ffc.	free from chlorine	prod.	producer
bbls.	barrels			pt	point
bgs.	bags	fib.	fiber	pulv.	pulverized
bls.	bales	f.o.b.	free on board	purif.	purified
bots.	bottles	FPA.	free of prussic acid	redist.	redistilled
b.p.	boiling point			refd.	refined
b.p.l.	hone phosphate of lime	frt.	freight	refy.	refinery
		fus.	fused	reg	regular
b.r.	boiling range	gal.	gallon	resub.	resublimed
bxs.	boxes	gran.	granular	ret.	returnable
C.	centigrade	grd.	ground	SD	specially denatured
cbys.	carboys	i.&a.	iron and aluminum	s.d	single distilled
CD.	completely denatured	i.b.p.	initial boiling point	S.E.	southeast
c.i.f.	cost, insurance, freight	imp.	imported	secs.	seconds
		incl.	included	s.g	specific gravity
cks.	casks	indust.	industrial	shipt.	shipment
c.l.	car lots	kgs.	kegs	solut.	solution
cns.	cans	lacq.	lacquer	s.u	standard unit
col.	color	lb.	pound	synth.	synthetic
coml.	commercial	l.c.l.	less than car lots	tanks.	railroad tank-cars
conc.	concentrated	liq.	liquid	tech.	technical
CP.	chemically pure	m.a.p.	mixed anilin point	USP.	U. S. Pharmacopoeia
cps.	centipoises			vis.	viscosity
cryst.	crystal	M c.f.	thousand cubic feet	VM&P	varnish makers & painters
cs.	cases				
ctns.	cartons	min.	minimum	W	west
cyls.	cylinders	m.p.	melting point	whse.	warehouse
dbl.	double	N.	nitrogen	w w	water white
denat.	denatured	nat.	natural		

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material

Acid, Para-Aminobenzoic—Alcohol, Isopropyl, Refined, 91%

Acid, para-aminobenzoic, tech., dms., lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 3.50 - —
smaller lots lb. 3.55 - 3.75
Para-aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.25 - —
smaller lots, same basis lb. 4.30 - 4.75
Parachlorobenzoic, fib. dms., works lb. 1.59 - 1.62
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 - 1.04
Phenylacetic, bots lb. 1.45 - 1.75
tech., dms., 1,000-lb. lots lb. .90 - —
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works 100 lbs. 7.00 - 7.10
l.c.l., works 100 lbs. 7.50 - 8.00
tanks, works 100 lbs. 4.90 - 5.00
NF, 85%, cbys., c.l., works lb. .08 - .08¼
l.c.l., works lb. .08½ - .09¼
Picric, NF 300-lb. bbls lb. .55 - —
dms., small lb. .31 - .37
tech., bbls lb. .32 - .33
Propionic, synthetic, pure, dms., c.l., works lb. .258 - —
l.c.l., works lb. .263 - —
tanks, works lb. .19 - .243
Pyrogallic, NF, (see Pyrogallol)
tech., bbls lb. 2.76 - 2.99
Pyroligneous, dms., incl., l.c.l, works gal. .36 - —
whse. gal. .504 - —
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 3.23 - —

Acid, salicylic, crude, bgs lb. .38 - —
sublimed, tech., bbls., c.l. lb. .37 - —
l.c.l. lb. .44 - —
dyestuffs grade, bbls lb. .39 - —
USP, cryst., bbls lb. .46 - —
powder, bbls lb. .51 - —
Sebacic, purified, dms., c.l., works, lb. .85½ - .88
l.c.l., works lb. .86 - .88½
Soybean oil, double dist., dms lb. .12¾ - .14
single, dist., dms lb. .12¼ - .13½
Stearic, double pressed, bgs lb. .17 - .13¼
single pressed, bgs lb. .11½ - .12¾
triple-pressed, bgs lb. .14¼ - .15½
Succinic, purified, cryst., bbls., works lb .63 - .75
Sulphanilic, tech., dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .20 - —
Sulphuric, 60° Be, cbys., c.l., works 100 lbs. 1.75 - —
l.c.l., works 100 lbs. 2.05 - 2.85
tanks, works ton.16.30 - —
66° Be, cbys., c.l. works 100 lbs. 2.00 - 2.10
l.c.l., works 100 lbs. 2.30 - 3.10
tanks, works ton.20.00 - —
96-100%, tanks, works ton.21.00 - —
CP, NF, consumers, cbys., extra, c.l., works, frt. equald. lb. .09¾ - —
l.c.l., same basis lb. .11¼ - .11¾
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼ - —
l.c.l., same basis lb. .14¾ - .20¾
fuming, 20%, tanks, works ton.22.40 - —
Tallow, dist., dms lb. .10½ - .11¾
hydrogenated, dms lb. .10½ - .11¾

Acid, tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .95 - —
Tartaric, USP, dom., 230, 250-lb., dms., c.l. lb. .39½ - —
10,000-lb. lots, 1 ship't lb. .40 - —
smaller lots lb. .40½ - —
100-lb. dms lb. .41½ - —
small dms. lb. .43½ - .49½
imported, bgs lb. .30½ - .31
Thioglycolic, refined, bgs., cbys., basis 100% lb. 1.60 - 1.80
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulphonic, dms., c.l., works works lb. .16 - —
l.c.l., works lb. .17½ - —
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5-T).
Tungstic, tech., kgs., works lb. 4.30 - —
Undecylenic, dms lb. 1.40 - —
Aconite leaves, bls lb. .35 - .40
root, bls lb. .65 - .75
Aconitine, amorph., mild, bots oz.27.50 -32.50
cryst., potent, bots oz.73.00 -85.00
Acrolein, dms., works lb. .50 - —
Acrylonitrile, dms., c.l., works lb. .44½ - —
l.c.l., works lb. .45 - .47
tanks, works lb .43 - —
ACTH, bots gm.25.00 - —
Adeps lanae (see Lanolin).
Adonis vernalis herb, bls lb. .22 - .24
Adrenocorticotropic hormone—see ACTH
Agar, USP, Kobe No. 1 strip, bls. lb. 2.25 - —
powdered, 30 mesh, fib. dms. lb. 2.25 - 2.50
Agaric, white, bls lb. 2.25 Nom.

Agrimony herb, bls lb. .28 - .30
Alanine, dextro-laevo, dms., works, lb. 8.50 -11.00
Albumen (egg), edible, flake, bbls., lb. 2.51 - 2.53
powd., bbls lb. 2.55 - 2.57
tech., cryst., bbls lb. 1.03 - 1.08
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l. lb. .70 - .80
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¾ - —
l.c.l., dlvd lb. .32½ - —
tanks, dlvd. lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
ex pentane, dms., c.l., frt. alld. E. of Rockies lb. .20½ - —
l.c.l., frt. alld. E. of Rockies lb. .21½ - —
tanks, frt. alld. E. of Rockies lb. .20 - —
fermentation, ref'd., 126°-132°C, dms., c.l., dlvd lb. .32¾ - —
l.c.l., dlvd lb. .33¾ - .36
tanks, dlvd lb. .31 - —
126-132° C. dms., l.c.l. dlvd. lb. .33¾ - .36
ACS grade, dms., l.c.l., dlvd lb. .35¾ - —
synthetic, normal, dms., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
tanks, works lb. .40 - —
secondary, dms., c.l., frt. alld. E lb. .23 - —
l.c.l., frt alld. E lb. .24 - —
tanks, frt. alld. E lb. .22½ - —
tertiary, dms. c.l., frt. alld. E. lb. .20¼ - —
l.c.l., frt. alld. E lb. .20¾ - —
tanks, frt. alld. E lb. .19 - —
Benzyl, NF, dms lb. .64 - .80
tech., dms., dlvd lb. .47½ - .49
Butyl, fermentation, normal, dms., c.l., frt. alld. lb. .14¾ - —
l.c.l., frt. alld lb. .15½ - —
tanks, frt. alld lb. .13 - —
synthetic normal, dms., c.l., frt. alld. lb. .14¾ - —
l.c.l., frt. alld lb. .15½ - —
tanks, frt. alld lb. .13 - —
secondary dms. c.l., frt. alld. lb. .12¾ - —
l.c.l., frt. alld lb. .13½ - —
tanks, frt. alld lb. .11 - —
tertiary, dms., c.l., frt. alld. lb. .13¾ - —
l.c.l., frt. alld lb. .14½ - —
tanks, frt. alld lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .15 - —
l.c.l., works lb. .15½ - —
tanks, works lb. .13½ - —
95%, dms., c.l., works lb. .16¼ - —
l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. 1.32 - —
smaller lots lb. 1.37 - —
NF, fib., cns., 140-lb. lots or more lb. .72 .95
smaller lots lb. .72 - 1.00
Cinnamic, bots lb. 2.25 - 3.20
Decyl, bots lb. 1.70 - 2.00
Denatured, CD12, CD13, CD14, dms., c.l., dlvd. E. of Rockies gal .68½ - .69¼
l.c.l., dlvd., same basis gal. .72½ - .78½
tanks, dlvd., same basis gal. .56½ - .57½
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .69½ - —
l.c.l., same basis gal. .73½ - .78½
tanks, same basis gal. .57½ - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .69 - .69½
l.c.l., same basis gal. .73 - .78½
tanks, same basis gal. .57 - .57½
SD2B, dms., c.l., dlvd. E. of Rockies gal. .68 - —
l.c.l., same basis gal. .72 - .77
tanks, same basis gal. .56 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .67 - .68
l.c.l. same basis gal. .71 - .77
tanks, same basis gal. .55 - .56
SD23A, dms., c.l., dlvd. E. of Rockies gal. .69 - .69½
l.c.l., same basis gal. .73 - .78½
tanks, same basis gal. .57 - .57½
SD23H, dms., c.l., dlvd. E. Rockies gal. .69½ - .70
l.c.l., same basis gal. .73½ - .79
tanks, same basis gal. .57½ - .58
SD27A, dms., c.l., dlvd. E. of Rockies gal. 1.34½ - —
l.c.l., same basis gal. 1.38½ - 1.43¼
tanks, same basis gal. 1.22½ - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .68½ - .70½
l.c.l., same basis gal. .72½ - .79½
tanks, same basis gal. .56½ - .58½
SD30, dms., c.l., dlvd. E. of Rockies gal. .66½ - .68½
l.c.l., same basis gal. .70½ - .77½
tanks, same basis gal. .54½ - .56½
SD35A, dms., c.l., dlvd. E. of Rockies gal. .70 - .72
l.c.l., same basis gal. .74 - .81
tanks, same basis gal. .58 - .59½
SD40, dms., c.l., dlvd. E. of Rockies gal. .68½ - .70
l.c.l., same basis gal. .72½ - .79
tanks, same basis gal. .56½ - .58
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾ - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½ - —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.62 -20.64½
l.c.l., same basis gal.20.66 -20.73½
tanks, same basis gal.20.50 -20.52½
tax free, dms., c.l., dlvd. E. of Rockies gal. .67 - .69½
l.c.l., same basis gal. .71 - .78½
tanks, same basis gal. .55 - .57½
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies, gal.21.72 -21.74½
l.c.l., same basis gal.21.76 -21.83½
tanks, same basis gal.21.60 -21.62½
Ethylbutyl, dms., c.l., works lb. .29¼ - .29½
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E. lb. .27¾ - —
l.c.l., same basis lb. .28¾ - —
tanks, same basis lb. .26¼ - —
Furfuryl, tech., cns., works lb. .31 - —
dms., c.l., works lb. .22½ - —
l.c.l., works lb. .24 - —
tanks, works lb. 19½ - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .13¾ - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd lb. .26¼ - —
l.c.l. dlvd. lb. .27 - —
tanks, dlvd. lb. .24½ - —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .5050 - .5225
l.c.l., dlvd. gal. .5550 - .5640
tanks, dlvd gal. .3850 - —

PUBLICKER PRODUCTS INCLUDE:

ETHYL ALCOHOL

- Pure (USP)
- Denatured
- Proprietary Solvent
- Anhydrous(200 proof)

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BUTYL ACETATE • ETHYL ACETATE
ACETIC ACID • ACETALDEHYDE
AMYL ACETATE • PACO SOLVENT T.R. 590
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FRICTION PROOFING
OIL
Tri-Sure® REG U.S. PAT OFF MFD BY AMERICAN FLANGE & MFG CO INC CHICAGO U.S.A.
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WHEN the Wynn Oil Company started producing Wynn's Friction Proofing Oil Additive in 1946, business was conducted in a one-car garage—but the company determined to give all of its drum shipments the most dependable protection obtainable.

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Tri-Sure Products Limited, St. Catharines, Ontario, Canada

Alcohol, Isopropyl, Refined, 95%—Ammonium Sulphate

Alcohol, isopropyl, refd., 95%, dms., c.l., dlvd. gal. .52¾- .53
i.c.l. dlvd gal. .57¾- .58
tanks, dlvd gal. .40¾- .41
99%, dms., c.l., dlvd gal. .55 - .56¾
i.c.l., dlvd gal. .60 - .61
tanks, dlvd gal. .43 - —
Lauryl, bots lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots lb. 1.70 - 3.25
technical (see Octanol normal).
Pantothenyl (see Panthenol).
Phenylethyl, dms lb. 1.57 - 2.15
Polyvinyl, various grades, bgs., ton lots, works lb. .72½- .76
smaller lots works lb. .77½- .81
Propyl, normal, dms., c.l., dlvd. lb. .12 - —
i.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Waverly, N. Y. lb. .49½- —
dms., Niagara Falls, N. Y. lb. .42½- —
i.c.l., Waverly, N. Y. lb. .45 - —
tanks, Niagara Falls, N. Y lb. .40 - —
Industrial grade, dms c.l., Niagara Falls N. Y lb. .29 - —
i.c.l., Waverly N Y lb. .30 - —
tanks, Niagara Falls, N. Y lb. .27 - —
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, 60% solut., dms., c.l., works, frt. alld lb. .93 - —
i.c.l., works, frt. alld lb. 1.05 - —
Aletris root, bgs lb. 1.20 - 1.25
Alkanet root, bgs lb. .45 - .46
Allethrin, 100%, dms., frt., alld lb. 32.00 - —
90%, dms., frt. alld lb. 28.80 - —
solution, 20%, dms. 100-lb. lots frt. alld lb. 6.65 - —
2½%, dms., frt. alld gal. 6.00 - —
Allspice (see Pimento).
Allyl bromide, cbys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd lb. .16¾- —
i.c.l., dlvd. lb. .17½- —
tanks, dlvd lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs lb. .35 - .38
powdered, cs. lb. .40 - .41
Curacao, kgs. lb. .60 - .65
Socotrine, kgs. lb. .25 - .35
Aloin, USP, bbls., dms., kgs lb. 4.25 - 4.70
Alphanaphthol, bbls, frt. alld lb. .85 - —
Alphanaphthylamine, bbls., frt. alld lb. .45 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline, ret. dms., c.l., works, frt. equald lb. .39½- .49½
i.c.l., works, frt. equald lb. .40 - .50
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., i.c.l., dlvd. f. lb. .17 - —
Alphatocopherol, bots kilo. 250.00 - —
Acetate, bots kilo. 250.00 - —
Althea root, NF, peeled, bls lb. .20 - .33
Alum, ammonium, gran., bgs., works 100 lbs. 3.80 - —
lump, dms., works 100 lbs. 4.55 - 4.95
powd., dms., works 100 lbs. 4.70 - 5.10
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Alum, potassium, gran., bgs., works, 100 lbs. 4.05 - —
lump, dms., works 100 lbs. 4.80 - 5.20
powd., dms., works 100 lbs. 4.95 - 5.35
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome, dms lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
i.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works, lb. .0385- —
i.c.l., works lb. .0410- .0510
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., i.c.l., works lb. .14 - —
Chloride, com'l, anhyd., dms., c.l., works, frt. equald lb. .15 - —
i.c.l., works, frt. equald lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
i.c.l., works lb. .1070- —
solution, 32°, cbys., c.l., works, lb. .0369- —
i.c.l., works lb. .0435- .0960
tankcars, works 100 lbs. 2.80 - —
NF, gran., dms., works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .11¾- —
i.c.l., works lb. .12¾- —
Aluminum fluoride, fiber dms., 35c. per 100 lbs. higher.
Formate, basic solution, cbys lb. .09½- —
i.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 60.00 - —
i.c.l., works ton. 65.00 - 85.00
light, bgs., dlvd lb. .17 - —
Hydroxide, gel., pnarmaceutical, 14-15%, Al_2O_3, fib dms., works lb. .22 - —
contract, works lb. .21 - —
8-9½%, Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
Aluminum hydroxide, dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. .79½- —
powder, tech (see Aluminum hydrate).
Laurate, precip., bbls lb. .44 - —
Metal, 99%+, ingots, 10,000-lb. lots, lb. .20 - —
pigs, 10,000-lb. lots lb. .19 - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 8-240 mesh, dms, frt. alld lb. .14 - .15
kgs., frt. alld lb. .12½- —
smaller lots, frt. alld. lb. .13 - .15
288-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt alld lb. .31 - —
500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt. alld lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs., frt. alld lb. .50 - —
Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.
optical, floated, kgs., dlvd lb. .36 - .86
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld lb. .15 - —
Paste, lining, extra-fine, dms lb. .59½- —
standard, dms lb. .41 - —
Powder, lining, extra fine, dms. lb. .97½- —
standard, dms lb. .68½- —
rubber grade, dms lb. .58½- —
unpolished, standard, dms lb. .54½- —
varnish, standard, dms lb. .59 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb for 50-lb. dm., 3c. per lb for 10-lb. can and 5c. to 12c. per lb for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., dms., frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
ton lots or less lb. .34 - —
monobasic, ctns., c.l. lb. .33 - —
ton lots or less lb. .34 - —
tribasic, ctns., c.l lb. .33 - —
ton lots or less lb. .34 - —
Sulphate, com'l, bulk c.l., works, 100 lbs. 1.65 - —
ground, bgs., works ton. 33.00 - —
lump, bgs., works ton. 36.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.25 - —
i.c.l., works, frt. equald 100 lbs. 3.65 - 6.15
USP, gran., dms., works lb. .10 - .12
powd., dms., works lb. .14 - .16
Trihydrate, heavy (see Aluminum hydrate)
Ambergris, gray, bots oz. 8.00 - 10.00
Ambrette seed, bgs lb. .65 - .66
Aminoazotoluene, bbls lb. .94 - 1.03
Aminoethylethanolamine, dms., c.l., dlvd lb. .46½- —
i.c.l., dlvd lb. .47½- —
tanks, dlvd lb. .45 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Aminophyllin, USP, 100-lb. dms lb. 4.30 - —
Aminopyrine, USP bots., dms lb. 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton. 79.00 - 80.00
pure, cyls., extra, zone 1 lb. .17 - .17½
2 lb. .17 - .18
3 lb. .17 - .19
4 lb. .20 - .21
5 lb. .16 - .19
refrigeration tanks works ton. 80.00 - 82.50
Aqua, (29.4%, NH_3), dms., c.l., dlvd. Met. area 100 lbs. 3.60 - —
i.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis ton. 80.00 - 86.00
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
i.c.l., same basis 100 lbs. 8.65 - 11.15
white, gran., bgs., c.l., works 100 lbs. 4.75 - —
i.c.l., works 100 lbs. 6.50 - —
Ammoniacal liquor, tankcars, works, anhyd basis ton. 75.00 - 80.00
Ammonium acetate, purified, dms. lb. .43 - —
Benzoate, USP, dms., kgs., 4,000 lb lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .83 - 1.08
Biborate, bbls., c.l., works ton. 312.00 - —
ton lots, ex whse ton. 375.00 - —
less ton lots, ex whse ton. 380.00 - —
Bicarbonate, dom., dms., c.l., works lb. .06 - —
i.c.l., works lb. .07 - —
imported, dms., i.c.l. lb. .07¼- .08½
Bichromate, bbls, works lb. .33 - .38
Bifluoride, dms., dlvd lb. .2035- .2160
Bromide, NF, gran., bbls lb. .38 - .39
dms lb. .39 - .42
Powdered ammonium bromide 10c per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech. (see Ammoniac sal).
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .75 - —
dms lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, bots., jars lb. 4.01 - 4.13
Linoleate 80% dms. works lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 33.5% N, bgs., c.l., shipping point ton. 72.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton. 86.84 - —
domestic, bgs., western, works ton. 64.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton. 51.00 - —
Oleate, 75%, dms., works lb. .55 - .60
Oxalate, fine gran., dms lb. .25 - .31
Pentaborate, gran., bbls., c.l., works ton. 222.00 - —
ton lots, ex whse ton. 285.50 - —
less ton lots, ex whse ton. 290.00 - —
Ammonium pentaborate powder, $10 per ton higher.
Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs. lb. .30 - .35
Phosphate, com'l, bgs., c.l., works, frt. equald lb. .08½- —
i.c.l., same basis lb. .09 - —
dibasic, NF, V bbls., dms lb. .45 - —
tech., bgs., c.l., works, frt. equald lb. .08½- —
i.c.l., same basis lb. .09 - —
Salicylate, NF dms, kgs lb. 1.62 - 1.64
Silicofluoride, dms., works lb. .11 - .12
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens ton 40.00 - 45.00
synthetic, bgs. c.l., western, works ton. 50.00 - 54.50
bulk, works ton. 47.00 - —
purified, dms., works lb. .07½- .08½

Special Filtrol*

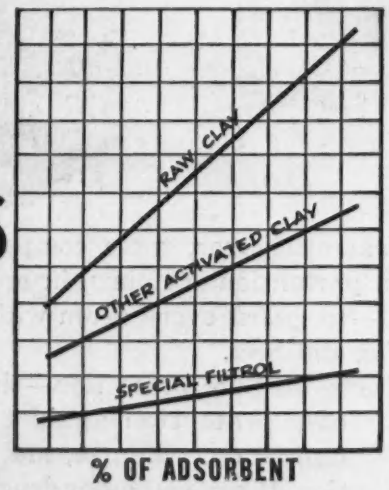
first choice with

soybean oil processors

FACTS

EVERY SOYBEAN OIL PROCESSOR

SHOULD KNOW:



1. Special Filtrol has a low pH which gives it a more powerful affinity for chlorophyll than any competitive adsorbent. At the same time, Special Filtrol is so designed that the free fatty acid formation is negligible.
2. Special Filtrol has proven successful in meeting bleached soybean oil color requirements where other activated adsorbents and raw clays have failed.
3. Special Filtrol is the most economic adsorbent to use. Less is required to attain the same color—hence less oil is retained in the press cake.
4. Special Filtrol has a faster filtration rate than that of any competitive adsorbent.
5. The National Soybean Processors Association, in conjunction with the American Oil Chemists' Society, specifies Special Filtrol as the standard activated adsorbent of the industry.
6. Filtrol Corporation offers complete laboratory facilities and trained oil technicians to assist oil processors with their decolorizing problems.

*T. M. REG. U. S. PAT. OFF.

FILTROL CORPORATION

General Offices: 727 West 7th Street, Los Angeles 17, California

Plants: Vernon, Calif., Jackson, Miss., Salt Lake City, Utah

FILTROL ADSORBENTS FIRST CHOICE WITH ALL FAT AND OIL PROCESSORS

Ammonium sulphide, liq., 40-45%, dms., c.l., basis 100%, works ton 211.50 - —
l.c.l. basis 100% works ton 312.50 - —
tanks, dlvd or frt alld ton 181.50 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .18 - —
l.c.l. works lb. .19 - .30
Thioglycollate, com'l, chys., basis 10.1% lb. 1.60 - —
highly purified, chys., basis 100% lb. 1.70 - 1.96
Thiosulphate, cryst., photo grade, fib dms., frt alld lb. .65 - —
60% solution, dms., c.l., works lb. .06½- —
Amphetamine hydrochloride dibasic, dextro, bots lb. 32.00 - —
dextro-laevo dms lb 6.50 7.00
monobasic, dextro, bots lb. 32.00 - —
Phosphate, dibasic, dextro, bots. lb. 32.00 - —
dextro-laevo dms lb 6.50 7.00
Sulphate, dextro, dms lb. 32.00 - —
dextro-laevo dms lb 6.50 7.00
Amyl acetate ex fusel oil, tech., dms., c.l., dlvd lb. .16¾- —
l.c.l., dlvd lb. .17½- —
tanks, dlvd lb. .15 - —
ex pentane, dms., c.l., frt. alld. E of Rockies lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18 - —
Alcohol (see Alcohol amyl).
Butyrate, dms lb. .90 - 1.05
Cinnamic aldehyde, dms lb. 1.70 - 2.10
Citrate, USP bots lb 1.75 1.83
Salicylate cns, dms lb 77 .95
Anethol, NF cns., dms lb. 1.20 - 1.60
Angelica root dom. bls lb 60 70
imported bls lb 50 60
Angostura bark bls lb. 43 49
Anilin oil, dms, c.l. works, frt. alld. lb .19 - —
l.c.l., works, frt alld lb. .20 - —
tanks, works, frt alld lb. .18 - —
Salt, dms., frt alld lb. .39 - —
Anise, Bulgarian, bgs lb. .12 - .13
Chinese, star, bgs lb. .68 Nom.
Czech, bgs lb. .12½ .13
Mexican, bgs lb. .14½- .15
Spanish, bgs lb. .15 - .15½
Syrian, bgs. lb. .13 - .13½
Turkish, bgs lb. .12½- .13
Anisic aldehyde, bots., dms lb. 2.35 2.80
Annatto seed whole, bgs lb. .26 - —
powdered dms lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 99.5% bbls., frt. alld lb. .85 - .88
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .34½- —
cases, c.l., mines lb. .35 - —
Oxide, bgs., c.l., frt. alld lb. .30 - .36
c.l., frt. alld lb. .31½- .37½
Sulphide, 62-64% bgs. dlvd lb. .38 .38½
Trichloride, pails, c.l., works lb. .43 .47
l.c.l., works lb. .45 .49
solution, chys., works lb. .29 - .30
Antimony-potassium tartrate (see Tartar emetic.
Antipyrene NF dms lb. 2.50 2.60
Apomorphine hydrochloride, USP, bots oz. 23.40 - 23.90
Areca nuts, powd., bbls lb 13 16
Arecoline hydrobromide, NF, bots. tins oz 5.00 5.75
Arginine monohydrochloride, laevo, dms., 1 kilo lots kilo 77.00 - —
Argols, min 50%, bgs., shipments, ports, per 100 kilos, basis 100% in. 26.00 - —
Arnica flowers (true montana), bls. lb. .65 - .66
root, bls lb. 1.45 —
Arrowroot, powd., bgs lb. .11 .14
Arsenic metal, lump, bbls., prompt ship't lb. .80 - .90
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd. lb. .06½- .07½
Asafetida, cs lb. .32 .35
powd., bbls, dms lb. .50 .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton 1,300.00- —
No. 2, c.l. (20 tons), mines ton 675.00 - —
Run-of-mine, c.l. (20 tons), mines ton 556.00 - —
3K, c.l., (20 tons), mines ton 456.00 - —
3R, c.l. (20 tons), mines ton 371.00 - —
3T, c.l. (20 tons), mines ton 348.00 - —
3Z, c.l. (20 tons), mines ton 321.00 - —
4K, c.l. (20 tons), mines ton 173.00 - —
4M, c.l. (20 tons), mines ton 173.00 - —
4T, c.l. (20 tons), mines ton 156.00 - —
4Z, c.l. (20 tons), mines ton 156.00 - —
5D, c.l. (20 tons), mines ton 122.50 - —
5K, c.l. (20 tons), mines ton 122.50 - —
5M, c.l. (20 tons) mines ton 116.50 - —
5R, c.l. (20 tons), mines ton 110.00 - —
6D, c.l. (30 tons), mines ton 78.00 - —
7D, c.l., (30 tons) mines ton 68.50 - —
7F, c.l. (30 tons), mines ton 65.00 - —
7H, c.l. (30 tons), mines ton 55.00 - —
7K, c.l. (30 tons), mines ton 46.00 - —
7M, c.l. (30 tons), mines ton 40.00 - —
7R, c.l. (30 tons), mines ton 39.00 - —
7T, c.l. (30 tons) mines ton 37.00 - —
7RF, c.l., (30 tons), mines ton 40.00 - —
7TF, c.l. (30 tons), mines ton 40.00 - —
8S, c.l. (30 tons) mines ton 27.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, seconds, 300°-390°F. fusing point not uniform, bgs., c.l., Craig, Colo.; Heber City, Utah ton 34.00 - —
select, 350°F. fusing point, bgs., c.l., same basis ton 38.00 - —
270°-295°F. fusing point bgs., c.l., same basis ton 37.00 - —
jet, bgs., c.l., same basis ton 34.00 - —
Manjak, No. 10, crude, dms., works lb. .00½- —
Petroleum, cut-back, tanks, tankwagon, refinery gal. .09 - —
emulsion, tanks, tank-wagon, refinery gal. .09½- .10
steam-refd., less than 80 penetration, tanks, tankwagon, refinery ton 22.00 - —
80-300 penetration, tanks, tankwagon, refinery ton 21.00 - —
Aspirin (see Acid, Acetylsalicylic.)
Atropine, USP, bots. oz. 9.35 - 10.50
Sulphate, USP, bots. oz. 5.25 - 6.30

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units ... 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 1.45
Barberry root bark, bags lb. .35 - .40
tree bark, bgs. lb. .40 - .45
Barbital, USP, 100-lb. drms lb. 5.00 - —
Sodium, USP dms lb. 5.25 5.27
Barium carbonate, precip., bgs., c.l., works ton 85.50 - —
smaller lots, works ton 95.50 - —
Chlorate, kgs., works lb. .34 - .38
Chloride, anhyd. bgs., c.l., works bgs ton 152.00 - —
l.c.l., works ton 162.00 - —
NF, cryst., dms lb. .16 - —
Barium chromate, bgs., frt. equald. lb. .30 - —
Dioxide (see Barium peroxide)
Hydrate, crystals, bgs ton 190.00 - 200.00
Iodide bots lb. 6.14 - —
Monoxide (see Oxide).
Nitrate, bbls, c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide grd, dms, c.l., works ton 250.00 - —
l.c.l., works ton 260.00 - —
Peroxide, dms, works lb. .16 - —
Stearate, cns, c.l ton .37 - —
ton lots lb .28 - —
less ton lots lb. .39 - —
Sulphate, tech (see Barytes and Blanc fixe).
X-ray, bbls lb. .14 - —
Sulphide, dms., c.l., works ton 71.50 - —
l.c.l., works ton 81.50 - —
Baryte, ore, approx 94% $BaSO_4$, bulk, mines ton 9.40 - 12.50
Barytes, Southern, off-color, bgs. mines ton 20.00 - —
90-75% bgs. mines ton 20.00 - —
water grd., paper, bgs., c.l. St. Louis ton 37.60 37.85
ex whse, N. Y. ton 53.45 - 61.75
Bauxite, bulk, mines ton 9.50 10.00
Bay leaves (see Laurel leaves).
Belladonna, leaf, bls lb. .35 - .50
root, bls lb .35 - .40
Bentonite, 200 mesh bgs., works ton 12.50 —
Italian, white, high gel, bgs., l.c.l., works ton 71.40 - —
5 ton lots ton 68.90 - —
10 ton lots, ex dock ton. 57.00 - —
low gel, bgs., l.c.l. ton 69.70 - —
5-ton lots ton 67.20 - —
10 ton lots, ex dock ton. 55.00 - —
Benzal chloride, chys., works lb .22 - .23½
Benzaldehyde, NF, dms lb. .74 - .79
tech., chys., dms lb. .49 - .54
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane)
tech., bgs., dms., c.l., works, gamma unit-lb. .013 - .015
l.c.l., works, gamma unit-lb. .019 - .021
dust, dry distributors, dms., c.l., dlvd., gamma unit-lb. .0185- —
l.c.l. dlvd. gamma unit-lb. .0225- —
wet distributors, dms., c.l., dlvd., gamma unit-lb. .0280- —
l.c.l. dlvd., gamma unit-lb. .0325- —
Benzidine base, bbls lb. 1.02 - —
Hydrochloride, bbls, frt. alld lb .94 —
Benzocaine, dms lb. 3.48 3.50
Benzoi, pure, nitration, tanks, works Bethlehem, Pa gal. .37 - —
Birmingham district gal. .30 - .35
Chicago district gal. .30 - .35
Cleveland district gal. .30 - .35
Geneva, Utah gal. .30 - —
Johnstown, Pa gal. .35 - —
Lackawanna, N. Y. gal. .37 - —
Lone Star, Texas gal. .37 - —
Lorain, Ohio gal. .30 - —
Minaqua, Colo gal. .35 - —
Philadelphia, Pa gal. .37 - .39
Pittsburgh district gal. .30 - .35
Sparrows Point, Md gal. .37 - —
Syracuse, N. Y. gal. .37 - —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .38¼ - —
Youngstown, Ohio gal. .35 - —
Benzophenone dms lb. 1.40 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, chys., frt. equald lb. .18 .20
Benzoyl chloride, chys., dms., c.l., works, frt. equald lb. .20½ .23½
l.c.l., same basis lb. .21½ .24½
Peroxide, pure, fib cns., works lb. .90 1.05
Benzyl acetate, l.t.c., cns., dms lb. .65 1.05
Alcohol (see Alcohol benzyl)
Benzoate, USP, l.t.c., cns., dms lb. .80 - —
Chloride, tech, chys., c.l., works, frt equald lb. .21 - —
l.c.l., same basis lb. .24 - —
High grade benzyl chloride, 2c higher
Cinnamate, cns lb 3.00 4.00
Formate, cns lb 1.60 2.10
Propionate, bots lb 1.35 1.80
Salicylate bots lb 1.65 1.85
Benzylidinacetone, bots lb. 1.68 - 2.00
Benzylisoeugenol, cns. lb. 8.00 - 9.00
Berberine bisulphate, cns lb 35.00 - 36.25
Hydrochloride, bots lb 35.00 - 36.25
Berberis root, bls lb. .32 - .35
Betagammapicoline, 5°, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
Betamethylnaphthalene, 32°C m.p., dms. works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .28½- —
tech., bbls., c.l. works lb. .32½- —
l.c.l., works lb .34½ —
Benzoate, fib dms., works lb 3.00 —
custom contract lb. 1.65 1.85
Salicylate, dms lb 5.00 -
Sulphate, cns lb. 35.00 - 36.25

The right package helps step up sales

It's easy to boost sales of your chemical products when you package them in Continental's oblong "F" style cans. These rugged containers come in ½-pint, pint, quart, half-gallon and gallon sizes—all have convenient pouring nozzles, and the larger ones are equipped with handles. Our lithographers are masters at decorating them for sales appeal.

Before you buy another container, get the Continental story!

Use Continental's steel containers for bulk shipments

Container	Suggested Use
Open Head Pails	Adhesives
Closed Head Drums	Anti-Freeze
Utility Cans	Insecticides
50 & 65 Pound Flaring Pails	Soap Powder
Small Flaring Pails	Dry Chemicals

CONTINENTAL CAN COMPANY

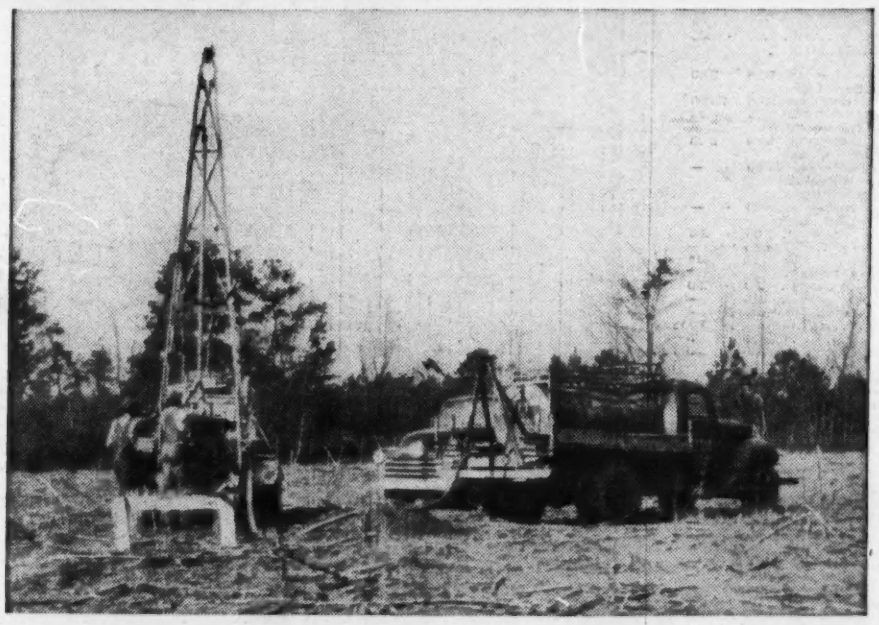
CONTINENTAL CAN BUILDING, 633 East 42nd Street, New York 17, N. Y.

EASTERN DIVISION: 100 E. 42nd St., New York 17
CENTRAL DIVISION: 135 So. La Salle St., Chicago 3
PACIFIC DIVISION: Russ Building, San Francisco 4

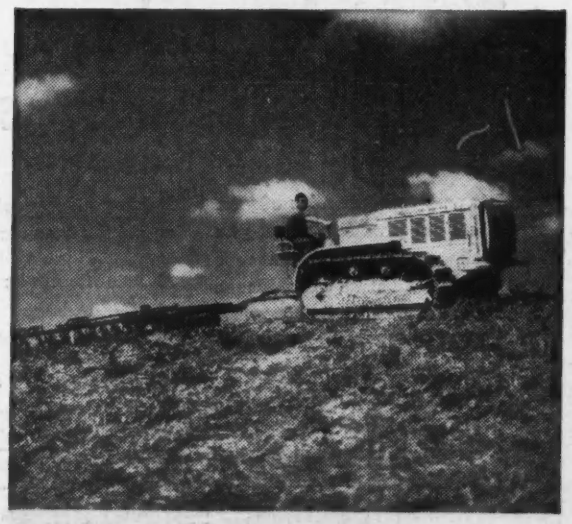
Betanaphthylamine—Butyric Ether

Betanaphthylamine, tech., bbls., works	lb.	1.05	1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots	lb.	1.10	—
smaller lots	lb.	1.15	1.40
Betapicoline, 98%, dms., works	lb	1.05	—
Beth root, bls	lb.	.40	.41
Biotin, cryst., bots	gram	10.00	—
Bismuth chloride, jars	lb	5.11	—
Hydroxide, dms	lb	4.65	—
Metal, bxs. ton lots	lb	2.25	—
Nitrate, cryst., dms	lb	2.10	2.17
Oxide, anhydrous, dms	lb	4.47	5.05
Oxychloride, dms	lb	4.37	4.42
Phenolsulphonate, fib. dms	lb	5.22	—
Subcarbonate, USP, dms	lb	3.20	—
Subgallate, NF, fib. dms	lb	3.15	—
Subiodide, fib. dms	lb	5.37	—
Subnitrate, NF, dms	lb	2.65	—
Subsalicylate, USP, dms	lb	3.50	—
Bismuth-ammonium citrate, USP, powd., jars	lb	4.22	—
Black, acetylene, bgs., c.l., works	lb.	.16	—
cs, l.c.l., ship't point	lb.	.20	.22
Bone, dms., l.c.l., frt. alld	lb.	.14¾-	.21
Pacific coast bone black prices, 2c. per lb. higher.			
Carbon, channel, beads, bulk c.l., works	lb	.07	—
bgs., c.l., works	lb.	.0740-	—
l.c.l., dlvd. or whse	lb.	.1225-	—
uncompressed, regular, bgs., c.l., works	lb.	.10	—
l.c.l., dlvd. or whse	lb.	.10	—
furnace, fast extruding, bgs., c.l., works	lb.	.06	—
ctns. l.c.l., whse	lb	.10	—
high abrasion, bulk, c.l., works.	lb.	.0750-	—
bgs., c.l., works	lb.	.0790-	—
l.c.l., dlvd. or whse	lb.	.1250-	—
high modulus, bgs., c.l. works.	lb.	.0550-	—
ctns., l.c.l., whse	lb.	.0950-	—
semi-reinforcing bgs., c.l., works	lb	04	—
ctns., l.c.l., whse	lb.	08	—
Charcoal (see C).			
Graphite (see G)			
Iron oxide, pure, bgs., c.l., works	lb.	.1175-	—
l.c.l., works	lb.	.12	—
Lamp, bgs., c.l., works	lb	.16	.45
Mineral, bgs., works	lb	.0160-	.0675
Black ash (see Barium sulphide).			
Blackberry, root bark, bls	lb.	.32	.35
root, bls	lb	.15	.16
Black dyes (see Dyes).			
Black haw, root bark, bls	lb.	.65	.70
tree bark, bls	lb.	.40	.42
Black Indian hemp root, bls	lb.	.60	.61
Blanc fixe, dry, by-product, bgs., c.l., works	ton	100.00	—
l.c.l., works	ton	110.00	—
direct process, bgs., c.l., works	ton	90.00	—
l.c.l., works	ton	100.00	—
N. Y. whse	ton	120.00	130.00
pulp, 66⅔%, bbls., c.l., works	ton	84.00	—
l.c.l., same basis	ton	92.00	—
Bleaching powder, dms., c.l., works	100 lbs.	5.02	—
l.c.l., works	100 lbs.	6.52	—
Blood, dried, 16-16½% ammo., bgs.,	unit-ton.	7.75	—
high-grade, unground, 16-17% ammon., bgs., Chicago,	unit-ton.	8.00	—
soluble bgs., c.l.	lb.	.17	.18½
l.c.l.	lb.	.18	.25
Bloodroot, bls	lb.	.55	.56
Blue, alkali dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis	lb.	2.00	—
toner, bbls. litho flushed, same basis	lb	1.10	—
Chinese, bbls., same basis	lb.	.39¾-	.45
Cobalt, genuine, bbls. same basis	lb	4.90	—
imitation (see Blue, ultramarine).			
Copper-phthalocyanine, full strength, bbls., same basis	lb	3.85	—
resinated, bbls, same basis	lb	3.40	—
water dispersable	lb	1.54	—
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).			
Methyl violet toner, molybdated, PMA bbls., same basis	lb.	2.00	—
tungstated, PTMA bbls., same oasis	lb.	4.05	—
Milori, bbls., same basis	lb.	.39¾-	.45
Peacock, fugitive, 100% color strength, bbls., same basis.	lb.	.75	—
Potash, CP, bbls., same basis	lb.	.56	—
Prussian, insoluble bbls., same basis	lb.	.39¾-	.45
soluble, bbls. same basis	lb	48	—
Soda, C.P., bronze, bbls., same basis	lb.	.39¾-	.45
Ultramarine, cobalt type, dry or pulp, bbls., same basis	lb.	.28	.30½
regular types, dry, bbls., same basis	lb.	.15	.33½
Victoria toner, molybdic, PMA, bbls	lb.	3.90	—
tungstated, PTMA bbls	lb	9.35	—
Blue dry colors, dlvd. prices ½c higher Ala., Fla., Ga., La. (Shreveport 1¼c), Miss., N. C., S. C., Tenn. Tex (El Paso 2c) Cedar Rapids, Des Moines Kansas City Lincoln, Omaha, St. Joseph 1 6c higher Pac Coast Denver, Pueblo, Salt Lake City Wichita frt. equalized with Chicago			
Blue dyes are listed under Dyes.			
Blueflag, root, bls	lb.	.45	.46
Bluestone (see Copper sulphate).			
Blue vitriol (see Copper sulphate).			
Boldo leaves, bls	lb.	.11	.13
Bonemeal, raw, 4½% ammon., 50% phos., bgs., works, E	ton.	70.00	Nom.
steamed works, E	ton	75.00	—
Bone phosphate, defluorinated (see D).			
of lime (see Calcium phosphate, tribasic)			
precipitated (see Calcium phosphate tribasic, NF, precip.).			
Bones, raw, bulk, Atlantic ports	ton.	60.00	—
Boneset leaves and tops, bls	lb	.17	.20
Borage flowers, bls	lb	.40	.49
Borax, tech., anhydrous, bgs., c.l., works	ton.	74.50	—
ton lots ex whse, N. Y. or Chi	ton	120.25	—
less ton lots, same basis.	ton	125.25	—
bulk, c.l. works	ton	67.50	—
crystals, 99½%, bgs., c.l., works.	ton.	63.75	—
ton lots, ex whse, N. Y. or Chi	ton.	109.50	—
less ton lots, same basis	ton.	114.50	—
bbls., c.l., works	ton.	88.25	—
ton lots, ex whse, N. Y., or Chi	ton	134.00	—
less ton lots, same basis.	ton	139.00-	—
bulk, c.l., works	ton.	59.25	—
Borax, technical, granular, 99½%, bgs., c.l., works	ton.	37.75	—
less ton lots, same basis	ton.	88.50	—
ton lots, ex whse, N. Y. or Chi	ton.	83.50	—
bbls., c.l., works	ton.	62.25	—
ton lots, ex whse, N. Y. or Chi	ton.	108.00	—
less ton lots, same basis	ton.	113.00	—
bulk, c.l., works	ton.	33.25	—
powder, bgs., c.l., works	ton.	42.75	—
ton lots, ex whse, N. Y. or Chi	ton.	88.50	—
less ton lots, same basis	ton	93.50	—
bbls., c.l., works	ton.	67.25	—
ton lots, ex whse, N. Y. or Chi	ton.	113.00	—
less ton lots, same basis	ton.	118.00	—
bulk, c.l., works	ton.	38.25	—
Borax packed in kgs, $45.50 per ton higher than in paper bgs. UPS borax $15 per ton higher.			
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point	lb.	.161	.221
l.c.l., same basis	lb.	.171	.241
Borneol, crns.	lb.	2.25	2.50
Borontrifluoride gas, cyls., truck-load works	lb.	.62	—
less truckload, works	lb.	.70	—
Brazilwood extract (see Hypernic extract).			
Brimstone (see Sulphur).			
Bromine, purified, cs., c.l., frt. alld. E. of Rockies	lb.	.23	—
1,000-lb. lots, same basis	lb.	.27	—
dms., lead-lined, dlvd	lb.	.25	—
Bromoform, pharmaceutical grade, bots.	lb.	1.62	2.60
cbys.	lb.	1.52	—
Bromstyrol, bots	lb.	5.40	5.70
Bronze powder, aluminum (see A). Gold, litho., cns., dms., works,	lb.	.75	.85
moulding, cns., dms., works	lb.	.85	1.00
printing ink, cns., dms., works	lb.	1.05	1.25
radiator, cns., dms. works	lb.	.80	.85
Broomtop, bls	lb.	.30	.35
Brown iron oxide, pure, bgs., c.l., works	lb.	.1275-	—
l.c.l., works	lb.	.13	—
Oxide, metallic, bgs., works	lb.	.0375-	—
Sap, crystals, bgs., works	lb.	.12	—
powdered bgs	lb.	.13	—
Sienna, burnt, paper bgs., c.l., works	lb.	.04¼-	.15¼
l.c.l., works	lb.	.04½	.15½
raw, paper, bgs., c.l., works	lb.	.04½	.13
l.c.l., works	lb.	.04¾	.13¼
Umber, burnt, American, bgs., c.l., works	lb.	.06	—
l.c.l., works	lb.	.06¼	—
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y	lb.	.06¼	—
l.c.l., works	lb.	.06½	—
raw, American, bgs., works	lb.	.06¼	.06½
Turkey type bgs., works	lb.	.06¼	.06½
Vandyke, bbls., works	lb.	.11	—
Brucine, cns., 100-oz. lots	oz.	.30	.32
Sulphate, NF, cns., 100-oz. lots	oz.	.26	.29
Bryonia root, bls	lb.	.32	.34
Buchu leaves, bls	lb.	.35	.40
Buckthorn bark, bls	lb.	.13	.17
cut and sifted, bls	lb.	.18	.23
Berries, bgs	lb.	.80	.90
Burdock root, bls	lb.	.22	.26
Butadiene, cyls, refinery	lb.	.22	—
tanks, same basis	lb.	.12½-	—
Butane, indust., tanks, group 3	gal.	.05	—
Butternut bark, bls	lb.	.23	.25
Butyl acetate, fermentation, normal, dms., c.l., frt. alld.	lb.	.14¾-	—
l.c.l., same basis	lb.	.15½-	—
tanks, same basis	lb.	.13	—
synthetic, normal, dms., c.l., dlvd. E.	lb.	.14¾-	—
l.c.l., same basis	lb.	.15½-	—
tanks, same basis	lb.	.13	—
secondary, dms., c.l., dlvd. E.	lb.	.13¼-	—
l.c.l., same basis	lb.	.14	—
tanks, same basis	lb.	.11½-	—
Alcohol (see Alcohol butyl).			
Aldehyde, dms., c.l., dlvd	lb.	.22½-	—
l.c.l., dlvd.	lb.	.23½-	—
tanks, dlvd	lb.	.20¾-	—
Chloride, dms., c.l., works	lb.	.37½-	—
l.c.l., works	lb.	.38	—
Ether (see Ether butyl).			
Lactate, dms., c.l., frt. alld. E. of Rockies	lb.	.34¾-	—
l.c.l., same basis	lb.	.35¾-	—
tanks, same basis	lb.	.33	—
Laurate, dms., works	lb.	.39	—
Methacrylate normal, dms., less truckloads, works	lb.	.70	—
Oleate, refd., dms., l.c.l., works	lb.	.36	—
Phenylacetate, dms	lb.	4.50	4.60
Phthalate (see Dibutyl phthalate).			
Stearate, dms., l.c.l., frt. equald	lb.	.24	.27½
Butylamine (see Mono-, Di- or Tri-).			
Butyric ether (see Ethyl butyrate).			

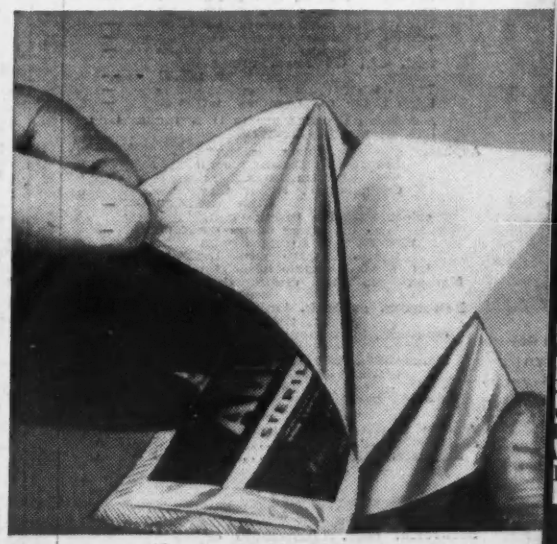
Life ...on the



CYANAMID DEVELOPS NE BAUXITE FIELDS and expan production of Aluminu Sulfate for use in paper mil water works, sewage plant tanneries, soap and in making. As old bauxite fiel are depleted, Cyanam crews are continuall making test drillings in ne fields to see whether mini operations are feasible. Ne fields are located by inte sive geologic surveys a are developed for mini when ore samples prove be of proper chemic grades and value. Cyanam mined bauxite is made in Aluminum Sulfate at Cyan mid plants in New Jerse Tennessee, South Carolin Alabama, Ohio and Michiga



AEROLUBE® 92, NEW CYANAMID LUBRICATING OIL ADDITIVE, has been specifically designed for use in Series 2 oils. These oils are recommended wherever fuels with high sulfur content are used, such as in Diesel tractors, or in high-output supercharged engines. AEROLUBE 92 combines oil antioxidant and bearing corrosion inhibition properties with highly effective alkaline detergency. Oils compounded with AEROLUBE 92 meet the recognized standards of low corrosivity to silver bearings.



NEW RELIEF FOR SUFFERERS from burns and other surface woun now comes with the development of Aureomycin Packing a Aureomycin Dressing for topical application by Davis & Ge Inc., a unit of Cyanamid. The new D&G antibiotic dressi and packings, now being used by surgeons and physicians help promote faster healing and prevent infection, are an i portant advance in wound therapy and another example the widespread use and importance of Aureomycin in co bating infection and disease.

C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars lb. 5.56 - 6.75
Metal, ingots or sticks, cs., dlvd. lb. 2.00 - —
Stearate, 50-lb. ctns., l.c.l., frt. equald lb. 1.25 - —
Caffeine, natural, USP, cryst., dms., 100 lbs. or more lb. 3.30 - —
anhydrous, dms. lb. 3.50 - —
synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.30 - —
anhydrous, dms., 100 lbs. or more lb. 3.50 - —
Citrated, USP, dms., 100 lbs. or more lb. 2.35 - —
Calamine, USP, dms. lb. .34 - —
Calamus root, dom., natural, bgs. lb. .25 - .30
imported, bleached, bls. lb. .70 Nom.
stripped, bls. lb. .30 - .40
Calciferol, cryst., vials, 250 grams or more, works gram. .95 - —
25 to 249 grams, works gram. 1.00 - —
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit .05¾- —
Calcium acetate, bgs., dlvd. 100 lbs. 3.00 - 4.00
Arsenate dealers, dms., c.l., whse., works, frt. alld. on 96 lbs. or over lb. .10 - .11
l.c.l., same basis lb. .11 - .12
Bromide, NF, jars lb. .90 - .92
Carbide, standard generator size, dms., c.l., dlvd. ton. 134.40 - —
Calcium carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton. 25.00 - —
liquor, 40%, tankcars, works, frt. alld ton. 10.50 - —
pellets, bgs., c.l., works ton. 31.25 - —
powder, bgs., c.l., works ton. 35.63 - —
solid, 73-75%, dms., c.l., frt. equald ton. 23.50 - —
l.c.l., works, same basis ton. 32.00 -69.00
USP, gran., bbls. lb. .30 - —
Chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms., dlvd. E. of Rockies, lb. .30 - .50
Gluconate, AA, bbls., dms. lb. .65 - .74
USP, bbls., dms. lb. .58 - .67
Glycerophosphate, NF, fib. dms. lb. 2.07 - 2.15
Hydride, dms., works lb. 2.20 - 4.00
Hydrochlorite, high test, cns., cased (45 lbs.) dlvd. E. of Rockies cs. 21.00 -23.00
100-lb. lots, same basis dm. 25.25 -29.85
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.32 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Mancelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. equald lb. .25¾- —
Nitrate, tech., bbls., works lb. .10 - .12
fertilizer grade, bgs., c.l., Los Angeles ton. 49.25 - —
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram. .07½- —
Calcium para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt. adjusted lb. 7.00 - —
smaller lots, same basis lb. 7.05 - 7.50
Phenolsulphonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs. 7.60 - 7.95
feed grade, bgs., c.l., works ton. 90.00 - —
l.c.l., bgs., works ton. 95.00 - —
monobasic, bgs., 10,000-lb. lots, works, frt. equald lb. .0623- —
smaller lots, same basis lb. .0675- —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.10 - —
l.c.l., works 100 lbs. 7.45 - —
Phytate, bgs works lb. .28 - —
Resinate, precip., dms., frt. alld., works lb. .27¾- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
l.c.l., works lb. .06½- —
Stearate, ctns., c.l. lb. .35 - —
ton lots lb. .36 - —
less ton lots lb. .37 - —
Sulphate (see Gypsum).
Calcium-strontium sulphide, phosphorescent, steel pails, 100 lb. to 999 lb lots, works lb. 2.60 - 3.50
fine particle size, same basis, works lb. 2.65 - 3.75
Calendula flowers, bls lb. .50 - .65
Calomel, USP powd. dms lb. 4.02 - 4.05
Camphene, dms., incl., c.l., works, lb. .1830- .1930
l.c.l., same basis lb. .1880- .2015
tanks, same basis lb. .1394- .1660
Chlorinated, 67-69% (see Toxaphene).

Cacao Butter—Chalk, Precipitated

Camphor, monobromated NF dms., kgs lb. 3.00 - 3.10
natural USP powd. 100-lb lots, bbls lb. .55 - .60
tablets 1-oz. ½-oz. cs lb. 70 - .75
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots lb. .55½- —
smaller lots lb 56 - .60
USP gran powd. bbls. 2,000-lb lots lb 60 - —
1,000-lb lots lb 61 - —
smaller lots lb 62 - —
tablets tins, 2,000-lb lots lb 93 - —
1,000-lb lots lb 94 - —
smaller lots lb 95 - —
Canada balsam (see Fir balsam).
Canella alba bark bls lb 25 - .33
Cantharides, Chinese cs lb 1.05 - 1.20
powd. bxs lb 1.15 - 1.40
Russian bgs lb 2.80 - 3.25
powd. bxs lb 2.90 - 3.50
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper dms lb 4.25 - 5.75
from African pepper dms lb 4.75 - 6.25
Caramel coloring NF bbls gal 1.05 - 1.20
Caraway seed, Dutch, bgs lb. .10 - .10¼
Carbazole, 97%, bbls., ton lots, works lb 1.25 - —
steel-dms., same basis lb. 1.20 - —
Carbinol, methylisobutyl, dms., c.l., dlvd lb. .15¼ - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13¼ - —
Carbon bisulphide, 50-gal. dms., c.l., works frt. alld competitive points lb .0700- —
l.c.l., same basis lb .0300- —
5-gal. dms., c.l. same basis lb. .0950- —
l.c.l., same basis lb. .1050- —
tankcars, same basis lb .0490- —
Dioxide, cyls lb. .08 - —
Tetrachloride, CP, dms., works lb. .1097- .1197
NF, chys lb. .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb. .0847- —
W. of Rockies, f.o.b. stock-points lb. .0897- —
l.c.l., E. of Rockies, frt. alld. lb. .1047- —
W. of Rockies, f.o.b. stock-points lb. .1107- —
Tetrachloride, tech., tanks, E. of Rockies, frt. alld lb. .0772- —
W. of Rockies, f.o.b. stock-points lb. .0822- —
Carbromal, NF, dms., 100-lb lots works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, bleached, cs lb. 3.75 - 4.10
medium, cs., afloat lb. 3.30 - —
decorticated, Alleppey, cs lb 3.00 - 3.10
Guatemalan, cs lb. 2.60 - 2.65
Mangalore type cs lb 2.50 - 2.55
green, Alleppey, bgs., afloat lb. 2.05 - 2.10
Ceylon, bgs lb. 2.20 - 2.25
seed (see Cardamom fruit, decorticated)
Carmine No. 40 NF bulk 100 lbs or more, dlvd lb 5.50 - —
smaller lots dlvd lb 5.65 - 6.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm. .50 - —
In carrot oil, 5,000,000 to 8,000,000 A units, per lb., dms., works, million units. .18 - —
Microcrystalline, in oil, 400,000 A units per gram, tins, works, million units. .30 - —
Carvol, bots. lb. 7.50 - 7.75
Cascara sagrada bark, bulk lb. 27 - 28
Casein, dom., acid-precip, standard, bgs., 10,000-lb lots or more, ship't point lb. 28 - .32
premium bgs., 10,000-lb. lots or more, ship't point lb. .35½ - .40
imported, Argentine, acid-precip., grd., 100-kg. lots or more, ex dock lb. .22 - .23
Cashewnut shell liquid (cashew) dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .15 - .15½
longstick lb. .19 - .19½
shortstick, bls lb. .16 - .16½
China, Canton, Kwangsi rolls, select, cs lb. .24 Nom.
broken, bls. lb. .23 - —
Honan, Yunnan, scraped, bls lb. .28 Nom.
unscraped, bls. lb. .27½ Nom.
Saigon, broken, bls lb. .33½- .37
medium, bls lb. .42 - .43
thin, bls lb. .50 - .52
Cassia buds, bgs lb. .65 - .70
Fistula, bskts lb 25 - 30
Castor beans, bgs. f.o.b. Brazilian ports long ton. 195.00 -200.00
Oil (see Oil, castor).
Pomace, bgs. c.l. works ton 37.25 - —
Castoreum, artificial, cns lb 9.00 - 9.25
natural, cns lb 7.00 - 30.00
Catechol, CP, cryst., fib. dms., works lb 3.17½ - —
resublimed, dms. works lb 3.29½ - —
Catnip leaves, southern, bls lb .65 - .70
Celery seed, French, bgs. lb. .38 - .38½
Indian, bgs lb. .25½- .27
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate flake, ctns., dlvd. lb. .40 - .45
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb. .52 - —
l.c.l., same basis lb. .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. .48 - —
l.c.l., same basis lb. .49 - .55
reprocessed black, dms., l.c.l., same basis lb. .43 - .49
Acetate butyrate, flake, 16% butyryl content, standard cartons works lb. .64 - —
17% butyryl content, standard cartons works lb. .54 - —
27% butyryl content, standard cartons works lb .64 - —
38% butyryl content, low viscosity, standard cartons works lb .68 - —
medium viscosity same basis lb. .54 - —
50% butyryl content, standard cartons works lb. .63 - —
molding composition plain colors, pearls, transparents, special black dms., l.c.l., frt. alld. lb. .64 - .71
reprocessed black, dms., l.c.l., same basis lb. .52 - .58
Triacetate, flake ctns. works, frt. alld. on 100-lb. lots or more lb. .50 - —
Cerium hydrate, dms., works lb 1.44 - 1.60
Oxalate, NF, bbls., bgs., works lb No prices
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 2.00
smaller lots, works lb. 1.90 - 2.10
Chalk precip., cosmetic, dentifrice, drugs, bgs. c.l. works lb .0295- .035
l.c.l. ex whse lb .0395- .05
paint, bgs. c.l. works ton 40.00 - —
papermakers, bgs. c.l. works ton 32.50 - 40.00
rubber makers, bgs., c.l., works ton. 55.00 - 60.00

Chemical Newsfront

NEW ARMY UTILITY BOAT IS LIGHTER, FASTER, STRONGER than wooden boat. Molded of Fiberglas-reinforced LAMINAC® Resin, the boat showed great all-over strength and ruggedness during punishing tests. Damages made during tests were easily repaired by unskilled personnel. Low displacement of lightweight boat gives 30% greater capacity than wooden model. LAMINAC, Cyanamid's versatile laminating resin, continues to be used in new and valuable ways by the plastics industry.

A NEW DAY IN TEXTILES is dawning with the introduction of newer synthetic fibers that rival silk for softness, wool for warmth, —yet are moth- and mildew-proof, resistant to shrinkage, sunlight, salt air and chemical fumes. Key chemical used in the production of many of these newer synthetics is AERO* Acrylonitrile, produced by American Cyanamid, which is also developing a new acrylic fiber of its own. *Trade-mark

American Cyanamid Company OPD 11-52
30 Rockefeller Plaza, New York 20, N. Y.

Please send me literature or further data on the items checked:

...Aluminum Sulfate
...LAMINAC Resins
...AEROLUBE 92 Additive
...AERO Acrylonitrile

In Canada: North American Cyanamid Limited, Toronto and Montreal

AMERICAN Cyanamid COMPANY
30 ROCKEFELLER PLAZA · NEW YORK 20, N. Y.

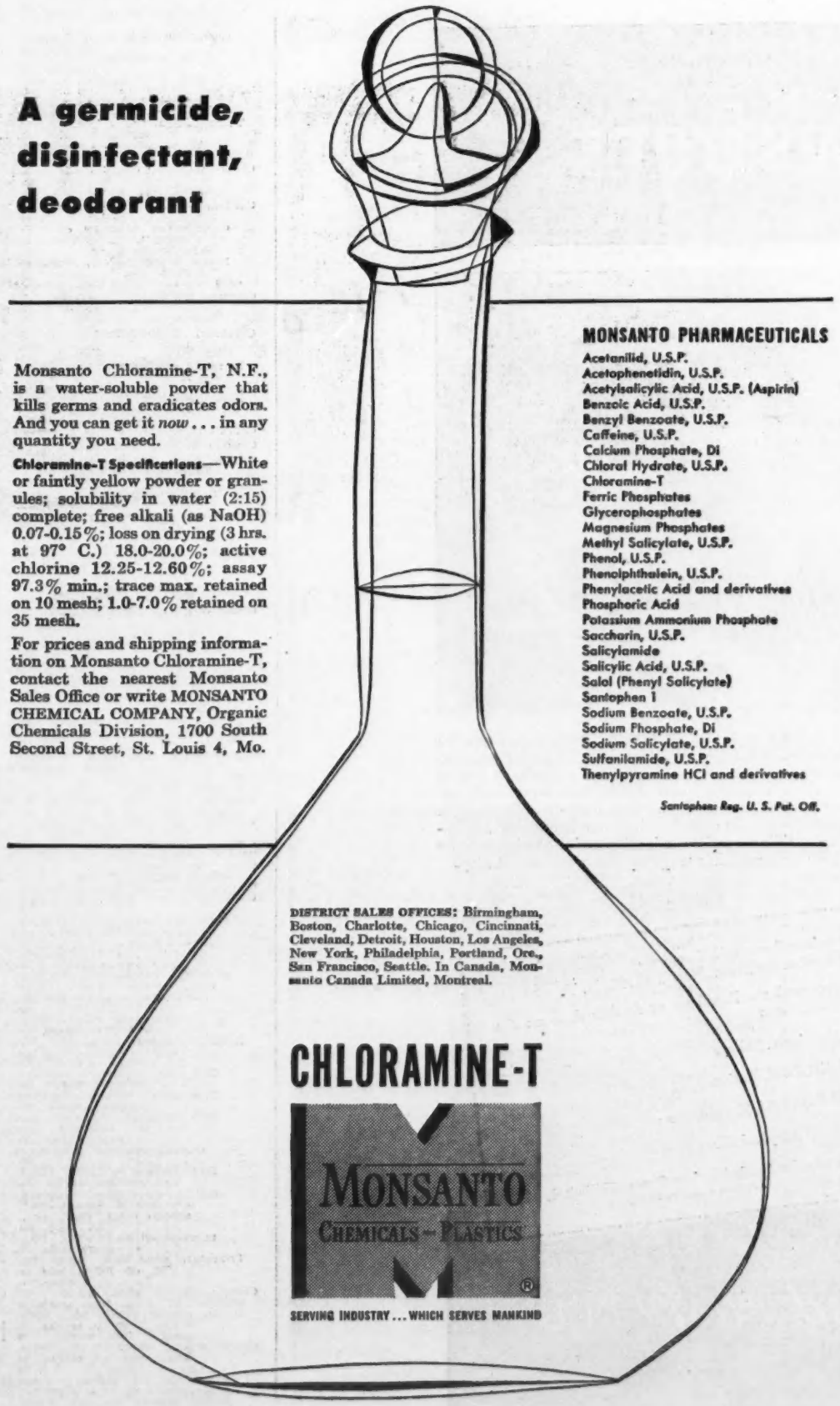
Chamomile Flowers—Copper Sulphate, Monohydrated

Chamomile flowers, Hungarian and Hungarian style, cs. lb. .90 - .95
Roman, cs. lb. .80 - .90
Charcoal activated NF, fib dms., c.l., works lb. .25 .32
5-ton lots, works lb. .28½ .32½
smaller lots, works lb .27 .50
Bone (see Black, bone)
Hardwood, briquets, bgs., c.l., works ton. 77.00 -88.00
bulk, c.l., works ton. 70.40 —
granular, bgs., works ton 77 00 —
Pinewood, gran., powd., bgs., c.l. works South ton. 43.50 —
t.c.l., works ton 43 50 53.50
lump bgs., c.l., works, South ton 40.00 —
t.c.l., works, South ton 50.00 60.00
bulk, c.l., works South ton 23.50 —
Chestnut extract, 25% tannin bbls., c.l., works lb. .0510- —
t.c.l. works lb. .0543- —
tanks, works lb. .0425- .0440
powd., 60% tannin, bgs., extra, c.l. works lb. .1092- —
t.c.l. works lb. .1165- —
Chloral, tech., 94% min. dms., c.l., works lb. .23 —
t.c.l. works lb. .24 —
tanks, works .. .21 —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb 1.33 —
100-lb. lots or less lb 1.25 1.40
Chloramine I NF bbls works lb .75 1.00
Chlordane agricultural dms. pails, c.l., frt alld lb. .65 —
t.c.l. frt. alld lb 66 .73
refined, dms., c.l., frt. alld lb .75 —
t.c.l., frt. alld lb. .76 .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .14 - —
t.c.l. lb. .14¾- —
70%, dms., c.l., same basis lb. .18 - —
t.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
t.c.l., works lb. .57 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
t.c.l., works lb. .61 .62
Chlorine, liquid, cyls., c.l. lb. .08¾- —
l.c.l., N.Y., stock points lb. .10¼- —
tanks, single units, works, frt. equald 100 lbs 2.70 - —
W. of Rockies 100 lbs 2.82½- —
multiple units, 3 cars, works, frt. equald 100 lbs 3.10 - —
2 cars, same basis 100 lbs 3.50 - —
1 car, same basis 100 lbs 4.46 - —
Chloroform, tech, dms, c.l. dlvd. E lb. .18 .182
t.c.l., same basis lb .192 .20
tanks, same basis lb .17 .171
USP, dms lb .30 .35
Chloro(4)-2-Toluidine bbls lb 1.38 —
Chlorophyll, oil soluble 4% not fixed, tins, pails, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.25 - —
sodium-copper, dms., pails, aqueous sol., 4%, works. lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms, works lb. 8.90 - —
Chlorophyll, oil soluble, concentrated, dom., 50%, dms., works, basis 100% lb.56.50 -60.00
75%, dms., works, basis 100% lb.60.00 - —
90%-100%, dms., works, basis 100% lb.60.00 -67.00
imported, 60%, dms., basis 100% lb.60.00 - —
75%, dms, basis 100% lb.60.00 - —
90%, dms., basis 100% lb.60.00 - —
Chloropicrin, com'l, bots lb 1.50 - —
cyls., 180 lbs. frt alld lb .93 - —
100 lbs. same basis lb 97 - —
25 lbs., same basis lb 1.22 - —
Cholesterol, USP, fib, dms., 100-lb. lots lb 8.80 9.50
5-lb pkg. lb 9.00 10 50
1-lb pkg. lb 9.50 10 50
Choline bitartrate fib dms., frt adjusted lb 1.70 1.95
Chloride fib dms, same basis lb 1.70 1.95
Dihydrogen citrate, fib dms, same basis lb 1.70 1.95
Chromium acetate powd 72% Cr., bbls., works lb. No stocks.
solut., 7½% bbls works lb. 08½ —
cbys. works lb. .10¼- —
8½%, bbls, works lb .09 —
cbys, works lb. .10¾- —
Fluoride, bbls, works lb 44½- —
Green (see Green, chrome)
Oxide (see Green, chromium oxide)
Oleate, solid, bbls lb 49 —
Trioxide NF bots lb 82 .89
Yellow, (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 6.50 - 8.00
Cinchona bark, NF, red, broken, bgs lb 28 30
yellow, broken, bgs lb 28 30
Cinchonidine, cryst., cns 100 oz.-lots oz 71 72
Sulphate, cns, 100 oz.-lots oz. .37 .40½
Cinchonine, cryst., cns., 100 oz.-lots. oz. .52 - .57
Sulphate, NF, cns., 100 oz.-lots oz. .27 - .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 4.05
standard density, dms., same basis lb. 3.50 3.85
Cinchophen-sodium, dms., frt. adjusted lb 4.50 4.85
Cinnamic alcohol (see Alcohol cinnamic)
Aldehyde, NF cns., dms lb 1.05 1.30
Cinnamon, Ceylon, No. 2, bls. lb. .26 - .26½
Citral, bots., cns. lb. 3.20 - 3.75
Citronellal, bots., dms. lb. 1.60 - 2.00
Citronellol, bots., dms. lb. 1.80 - 2.40
Civet, artificial, bots lb 13.75 -15.00
natural, bots oz 3.50 7 00
Clay, hall dom, crushed, bulk, Tennessee ton 10.00 -12.00
airfloated, bgs, c.l., Tennessee ton 19.50 —
purified, bgs, c.l., Tennessee ton 20.50 —
imported, lump, bulk, Atlantic port long ton 27 00 -30 00
airfloated, bgs, c.l., Atlantic port, long ton 43.00 -45.00
pulverized, bgs., t.c.l., all ports ton 55 00 —
97% 200 mesh, bgs, c.l Georgia ton 54 00 -56 00
China, dom, dry-grd, air-float, 99% 300 mesh bgs c.l. works ton 11 50 14.50
t.c.l., works ton 35.30 —
bulk, c.l., works ton 8 50 -11 50
200 mesh bgs., c.l. works ton 13.50 -17 00
imported, white, lump, bulk, c.l. ex dock, Phila., Portland, Me gross ton 20 00 40 00
powd. bgs c.l., ex dock net ton 50 00 —
t.c.l. ex whse net ton 60 00 -65 00
Clove, Madasgascar, bls. lb. 1.62 - —
Zanzibar, ols lb. 1.62 - —
Clover tops, red, bgs lb 45 .50
CMC, purified high vis., (see Cellulose)
standard low vis bgs 23,000 lbs or over, works frt alld lb 60 —
smaller lots same basis lb 62 —
medium vis bgs., 23,000 lbs. or over works, frt. alld lb. .57 - —
smaller lots same basis lb 59 —
technical high vis., 58% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis lb. .56 - —
2,000 to 20,000 lbs dlvd. E b .58 —
less than 2,000 lbs., dlvd. E. lb. .62 - —
low vis., 62½ purity, bgs or fib. dms. c.l. dlvd E. basis 100% b 46 47
t.c.l. dlvd E. basis 100% lb. 48 49
58% purity, bgs., c.l., dlvd E. basis net weight lb. .34 - —
t.c.l., dlvd E lb .36 —
47½% purity, bgs., c.l dlvd., E., basis 100% lb. .46 - —
t.c.l. dlvd E. lb 48 —
36½% purity bgs, c.l., dlvd, E basis net weight lb. .18½- —
t.c.l dlvd E lb 20 —

Prices for technical grades of CMC West of the Rocky Mountains are 1c. per pound less than delivered prices.

Coaltar, coal gas, water gas, crude, resale dms c.l. ex whse: gal. .24 .27½
t.c.l. ex whse gal. .25 .28½
tanks, ex whse gal. 14 .15
refd. resale dms. c.l. ex-whse gal. .25 .28½
t.c.l. ex whse gal. .27 .29½
tanks, ex whse gal. 15 .16
Cobalt acetate 23.7% bbls., dlvd lb. 1.14¾- —
Carbonate, 46% powd., bgs., dlvd lb. 1.92¼- —
Chloride 24.2% Co. kgs., dlvd., lb. 1 10½ —
Hydrate, 60-61% Co., bbls., dlvd lb. 2.52 - —
Linoleate, fused, 8½% Co., dms lb. 64½- —
liquid, 6% Co. dms lb. 53¼- —
Metal, 97 99%, kgs., ex-whses lb. 2.40 - —
Naphthenate, liq., 6% Co., dms., lb. .42¾- —
Nitrate, 20.1% Co., bbls., dlvd lb. .99¼- —
Oxide, black 70-71% Co., kgs lb 1 76 —
Phosphate, powdered, 32.1% Co., kgs., dlvd lb. 1.37¾- —
Resinate, fused, 3% Co., dms lb. .27 —
Sulphate, cryst., 21% Co., dms., dlvd lb. .81¾- —
monohydrated, 33% Co., dms. dlvd lb. 1.28½- —
Cocaine, USP, cns., 100-oz. lots oz.15.00 —
Hydrochloride, cns. 100-oz. lots oz.11 75 —
Cochineal USP gray, bgs lb. .68 - .90
Cocillana bark, bgs lb. .16 - .17
Cocoa butter, bgs. lb. .65 - —
Codeine, NF, cns. 100-oz. lots oz.13.25 - —
Hydrochloride, cns., 100-oz. lots oz.11 75 - —
Phosphate, USP cns., 100-oz. lots oz.10.25 - —
Sulphate, USP, cns., 100-oz. lots oz.10 75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .22 .25
Blue, bls lb. .17 - .18
Colchicine, USP, bots., cns. oz.65.00 -70.00
Colchicum root, bls lb. 45 .60
Seed, bgs lb. .80 1.10
Collodion USP, dms lb. .32½- —
flexible, USP, dms. lb. .34 - —
Colocynth pulp, bls lb. .30 - .35
Colombo root, bls., to arrive lb. .22 - —
Coltsfoot leaves, bgs lb. .25 .30
Condurango bark, bgs lb. .17 .18
Copaiba balsam, cns., dms. lb. 1.00 - 1.75
Copper acetate, bbls., c.l. works lb. .34¾- —
t.c.l., works lb. .35¾- —
Carbonate 55% bgs. works lb. .22 .23½
Chloride, anhyd., bbls., works lb. .34½- —
crystals, bbls., works lb. .22¾- —
Citrate USP 5-lb bots oz. 2.40 —
Cyanide, tech., bbls., over 1,000-lb. lots or more lb. .613 - —
less than 1,000 lbs lb. .633 - —
Gluconate cns., dms lb. 3.00 - 3.24
Hydrate, dms. frt alld E Miss. lb. .36 .36½
Metal, electrolytic lb. .24½ .27½
Naphthenate, liquid 8% Cu, dms., frt. alld lb. .22¾- —
Nitrate tech. cryst. bbls. works. lb. .25¼ —
Oleate, solid, 9% Cu, dms., works. lb. .45 —
Oxide black bbls., works lb. .39 .40
red, com'l, bbls., c.l., works lb. .43 - .45¼
t.c.l., works lb. .44 - .45½
Oxychloride-sulphate, bgs., frt. alld lb 24¼ Nom.
Quinolinolate, fib, dms lb. 4.25 - 4.50
Resinate precip., dms., frt. alld lb 27½ —
Stearate ton lots, works lb 38½ 39¼
less ton lots works lb 40½ —
Sulphate cryst., 99%, bgs., c.l., works 100 lbs. 8.95 - 9.35
t.c.l 100 lbs 9 20 10 95
CP, cryst., gran., bbls., works lb 1615 —
monohydrated, 35% dms., c.l., works 100 lbs. 14.95 15.50

A germicide, disinfectant, deodorant



Monsanto Chloramine-T, N.F., is a water-soluble powder that kills germs and eradicates odors. And you can get it *now* . . . in any quantity you need.

Chloramine-T Specifications—White or faintly yellow powder or granules; solubility in water (2:15) complete; free alkali (as NaOH) 0.07-0.15%; loss on drying (3 hrs. at 97° C.) 18.0-20.0%; active chlorine 12.25-12.60%; assay 97.3% min.; trace max. retained on 10 mesh; 1.0-7.0% retained on 35 mesh.

For prices and shipping information on Monsanto Chloramine-T, contact the nearest Monsanto Sales Office or write MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Mo.

MONSANTO PHARMACEUTICALS

Acetanilid, U.S.P.
Acetophenetidin, U.S.P.
Acetylsalicylic Acid, U.S.P. (Aspirin)
Benzoic Acid, U.S.P.
Benzyl Benzoate, U.S.P.
Caffeine, U.S.P.
Calcium Phosphate, Di
Chloral Hydrate, U.S.P.
Chloramine-T
Ferric Phosphates
Glycerophosphates
Magnesium Phosphates
Methyl Salicylate, U.S.P.
Phenol, U.S.P.
Phenolphthalein, U.S.P.
Phenylacetic Acid and derivatives
Phosphoric Acid
Potassium Ammonium Phosphate
Saccharin, U.S.P.
Salicylamide
Salicylic Acid, U.S.P.
Salol (Phenyl Salicylate)
Santophen 1
Sodium Benzoate, U.S.P.
Sodium Phosphate, Di
Sodium Salicylate, U.S.P.
Sulfanilamide, U.S.P.
Thenylpyramine HCl and derivatives

Santophen: Reg. U. S. Pat. Off.

DISTRICT SALES OFFICES: Birmingham, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle. In Canada, Monsanto Canada Limited, Montreal.

CHLORAMINE-T

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

Copper sulphate, tribasic, dealers, bgs., c.l., works, frt. alld. 100 lbs. 25.60 - —
l.c.l., works 100 lbs. 27.10 - —
USP, gran., cryst., dms. lb. .1615- .2500
Undecylenate, dms. lb. 2.90 - 3.00
Copperas, gran., bgs., c.l., works ton. 28.50 - —
l.c.l., divd. Metro area 100 lbs 3.00 - —
bbls., c.l., works ton. 34.00 - —
bulk c.l., works ton. 21.00 - —
Copra, Atlantic Gulf ports, c.i.f. ton. 215.00 - —
Pacific ports, c.i.f. ton. 210.00 - —
Coriander seed, Argentine, bgs lb. .08½- .09
Czech, bgs lb. .07 - .07½
Moroccan, bgs. lb. .06 - .06½
Roumanian, bgs lb. .07½- .08
Corn sugar tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.30 - —
Syrup, 42°, dms., c.l. 100 lbs. 7.32 - —
l.c.l. 100 lbs. 7.47 - —
Cornsilk, bls lb. .12 - .14
Corrosive sublimate, NF, cryst., dms., 50-lb. lots or more lb. 3.68 - —
gran. powd., dms., 50-lb. lots or more lb. 3.53 - —
Cottonroot bark, bls lb. .23 - .28
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.50 - —
Meal, 41% protein, sacked, Memphis ton. 80.00 Nom.
Coumarin cryst., NF, ens. lb. 2.94 - 3.15
powd., cans lb. 3.20 - 3.25
Cramp bark, NF, bls lb. .80 - .90
Cranesbill root, bls lb. .40 - .41
Cream of tartar, NF, dom., gran. or powd., dms. lb. .34½- —
bbls., 5,000 lbs. one shipment lb. .35 - —
smaller lots, bbls., kgs. lb. .35½- .38½
imported, kgs. lb. .27¾- —
Creosote carbonate, NF, bots., cbys. lb. 2.80 - 2.90
Coaltar, crude, tanks, works, frt. adjusted gal. .20 - —
solution, 80%, tanks, works, gal. .188 - —
refined, dms., c.l., works gal. .35 - —
l.c.l. same basis gal. .41 - —
tanks, same basis gal. .27 - —
Wood, beechwood, cbys., dms. lb. 1.35 - 1.40
hardwood, bots., cbys. lb. 1.05 - 1.10
pinewood, dms gal. .31 - .32
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, dms., c.l., frt. equald. lb. .158 - —
l.c.l., same basis lb. .161 - —
ret. dms., c.l., same basis. lb. .155 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .145 - —
USP, non-ret. dms., c.l., same basis lb. .168 - —
l.c.l., same basis lb. .171 - —
ret. dms., c.l., same basis lb. .16½- —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .155 - —
Crotonaldehyde, 91-93%, l.c.l., works. lb. .24¼- .25
Cryolite, nat., industrial, bgs., c.l., works 100 lbs. 10.50 - —
l.c.l., works 100 lbs. 11.25 -11.50
Insecticide, dealers, bgs., c.l., dlvd 100 lbs. 15.25 - —
l.c.l., dlvd. 100 lbs. 16.25 - —
Cuba root, powd., 5% rotenone, bgs., works lb. .23 - .25
Cubeb berries, XX NF, bgs lb. .45 - .52
powd., cs lb. .55 - .60
Culvers root, bbls. lb. .60 - .61
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs. lb. .16 - .16½
Moroccan, bgs. lb. .22 Nom.
Syrian, bgs lb. .17 - .17½
Turkish, bgs. lb. .15½- .15¾
Cutch extract, 55% tannin bgs., ex dock, duty extra lb. .08¼- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran. bgs., Niagara Falls, Ont., contract ton. 62.50 - —
pulv., 21% N, bgs., works, unit ton. 2.90 - —
Cyclohexane, tech., 95%, dms., c.l., dlvd. lb. .11 - —
l.c.l., divd. lb. .11¼- —
tanks, divd. lb. .09¼- —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E. lb. .24¾- .37¾
l.c.l., works, same basis lb. .25¼- .38¼
tanks, works, same basis lb. .23¼- .36¼
Cyclohexanone, tech., dms., c.l. lb. .26½- .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine, dms., c.l., works. lb. .41½- —
l.c.l., works lb. .42½- —
tanks, works lb. .40 - —
Cyclopropane, CP, 2 lb. cyls., works. cyl. 48.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40 gal. lots. gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

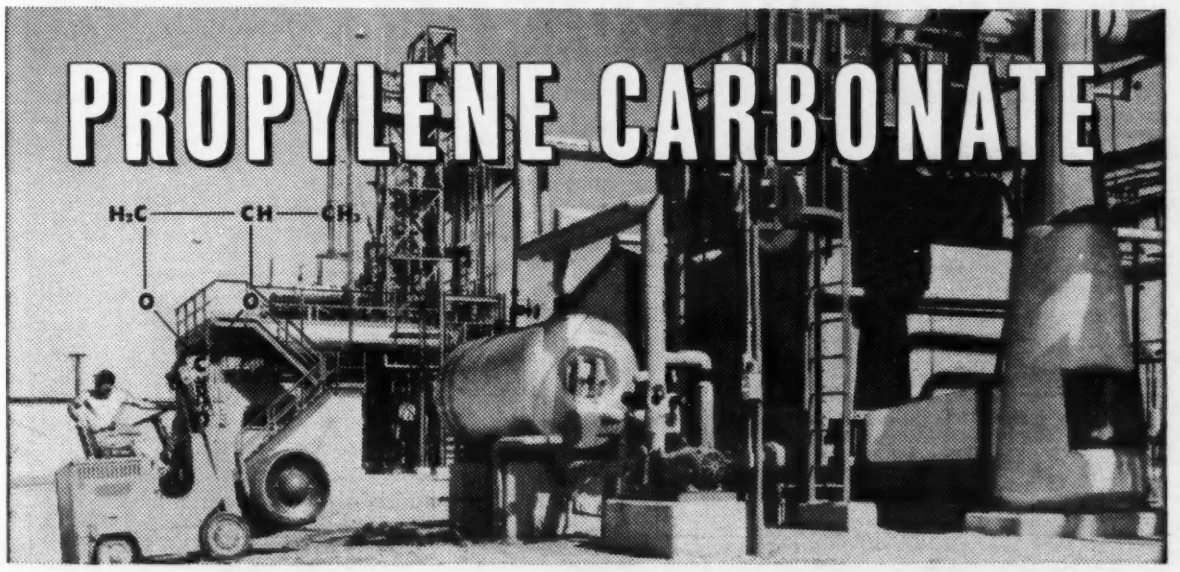
2, 4-D bbls., c.l., works, frt. equald. lb. .61 - —
l.c.l., same basis lb. .67 - —
isopropyl ester, dms., c.l., works. lb. .67 - —
l.c.l., works lb. .72 - .74
Damiana leaves, bls. lb. .28 - .30
Dandelion root, bls lb. .45 - .50
DDD, tech., fine grd. 5lb. dms., c.l., works lb. .60 - —
l.c.l., works lb. .61 - —
DDT, fiber dms., c.l., works, frt. equald. lb. .32 - .33
smaller lots, same basis lb. .35 - .36
Decanol, normal, tech., dms., c.l., dlvd lb. .419 - —
l.c.l., divd lb. .439 - —
tanks, divd lb. .394 - —
Deertongue leaves, bls lb. .42 - .43
Defluorinated phosphate, 13% P, paper bgs., works ton. 49.25 - —
18½% P, paper bgs., works ton. 62.75 -63.75
Rock, 14½% P, paper bgs., works ton. 50.00 - —
Degras, common, bbls. lb. .11 - .12
crude, centrifugal, bbls. lb. .18 - .20
neutral, less 2% ffa, bbls. lb. .30½- —
over 2% ffa., bbls lb. .30 - —
Derris root, 5% rotenone powd., bbls lb. .32 - .35
Desoxyepnedrine hydrochloride, dextro, bots lb. 25.00 - —
dextro-laevo, bots lb. 7.50 - —
Dextrin, corn, gum, paper bgs., c.l., N.Y. 100 lbs. 8.95 - —
l.c.l. 100 lbs. 9.10 - —
canary, paper bgs, c.l. 100 lbs. 8.69 - —
l.c.l. 100 lbs. 8.84 - —
dark, paper bgs., c.l. 100 lbs. 8.79 - —
l.c.l. 100 lbs. 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.72 - —
per 100 lbs. higher.
Potato, bgs. lb. .10½- .11
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c.

Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb. 4.50 - 4.60
laboratory grade, bots 100 grams. 4.50 - —
tech., bots., works lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Dianisidin, dms lb. 1.90 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton. 52.00 -55.00
California ton. 42.00 -45.00
l.c.l., ex whse ton. 85.00 -90.00
purified, bgs., c.l., Atlantic coast ton. 65.00 - —
California ton. 53.00 —
l.c.l., ex whse ton. 95.00 -100.00
Atlantic coast ton. 95.00 -100.00
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, CP, dms., c.l., works lb. .92 - —
l.c.l., works lb. .93¾- —
tanks, works lb. .91 - —
Dibutyl phthalate, dms., c.l. divd., E lb. .35¾- —
l.c.l., same basis lb. .36¾- —
tanks, same basis lb. .34 - .34½
Sebacate, CP, dms., c.l., works. lb. .92 - —
l.c.l., works lb. .93 - —
tanks, works lb. .90¼- —
tech., dms., c.l., works lb. .90 - —
l.c.l. works lb. .91 - —
tanks, works lb. .88¼- —
Tartarate, dms., works, frt. alld. lb. .71 - —
Dibutylamine, dms., c.l., frt. alld. E. of Rockies lb. .54¾- —
l.c.l., same basis lb. .55¾- —
tanks, same basis lb. 53 - —

DicaprYl phthalate, dms., c.l., divd. lb. .36¾- .38¾
l.c.l., divd lb. .37 .38¾
tanks, divd lb. .35 .37
Sebacate, dms., c.l., works lb. .78½ —
l.c.l. works lb. .79½ —
tanks, works lb. .76¾ —
Dichloroaniln, dms., works lb 75 .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether dichloroethyl).
Dichloropentanes, dms., c.l., works lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. 46 —
l.c.l. works lb. 46¾ —
tanks, works lb. 44½ —
Dicyclohexylphthalate, fib dms., c.l., works lb. 60 - —
l.c.l. same basis lb 61 - —
Dieldrin, dms., frt allc lb 2.60 - —
l.c.l., frt allc lb 3.04 - —
Diethanolamine, dms., c.l., divd E. lb. .29¼- —
l.c.l. same basis lb 30¼ —
tanks, same basis lb 27½ —
Diethyl carbonate, dms., c.l., frt. allc lb 46¾ —
l.c.l. same basis lb 47¾ —
tanks same basis lb 45 —
Maleate, dms., c.l., divd lb. .50 —
l.c.l. divd lb 48¼- —
tanks divd lb 48½ —
Oxalate, dms., c.l., frt. allc lb .41¾- —
l.c.l. same basis lb 42¾ —
tanks, same basis lb 40 —
Phthalate, dms., c.l., divd lb. .31¼- —
l.c.l. divd lb. .32¼- —
tanks, divd lb. .29½- —

Diethyl sulphate, dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼- —
tanks, works lb. .17 - —
Diethylamine, dms., c.l., divd. E lb. .54¼- —
l.c.l., same basis lb. .55¼- —
tanks, same basis lb. .52½- —
Diethylanilin dms lb. 48 —
Diethyleneglycol, dms., c.l., divd. E. lb. .20¼- —
l.c.l. same basis lb .21¼- —
tanks, same basis lb. 18½- —
Boriborate, dms., l.c.l lb. 30½- —
Diethylether, dms., c.l., works lb. 46½ —
l.c.l., works lb. 47 - —
Monobutylether, dms., c.l., works. lb. .28¾- —
l.c.l., works lb. 29¼ —
tanks, works lb. 27 - —
Monobutylether acetate, dms., c.l., works lb. 30 - —
l.c.l., works lb 30½ —
Monoethylether, dms., c.l., divd. lb. .20¾- —
l.c.l., divd lb. .21½- —
tanks, divd lb. .19½- —
Monoethylether acetate, dms., c.l., works lb 26¾ —
l.c.l., works lb 27¼ —
Monomethylether, dms., c.l., works. lb. 24¾- —
l.c.l. works lb 25¼ —
tanks works lb 23½ —
Diethylenetriamine dms., c.l., divd E. lb. .43 - —
l.c.l., same basis lb. .44 - —
tanks, same basis lb. .41½- —
Diethylethanolamine, dms., c.l., dlvd lb. .67½ —
l.c.l., same basis lb. 68½ —
tanks, same basis lb. 65¾ —

Another new **JEFFERSON** *chemical*



now available in pilot-plant quantities

Properties of a typical sample of Jefferson's Propylene Carbonate are:

Boiling point, °C	242
Freezing point, °C	—49
Flash point (open cup), °F	270
Refractive index at 20°C	1.4209
Specific gravity, 20/4 °C	1.2057
Appearance	Mobile water-white liquid
Viscosity, centistokes	
at —40°F	19.4
at 100°F	1.67
at 210°F	0.78

Suggested Applications:

hydraulic fluids
solvent and selective solvent
chemical intermediate
hydroxypropylating agent

You may obtain technical information and experimental samples* for research and development by writing to our Market Development Division, Dept. A.

★ **Ethylene Carbonate samples and data are also available.**

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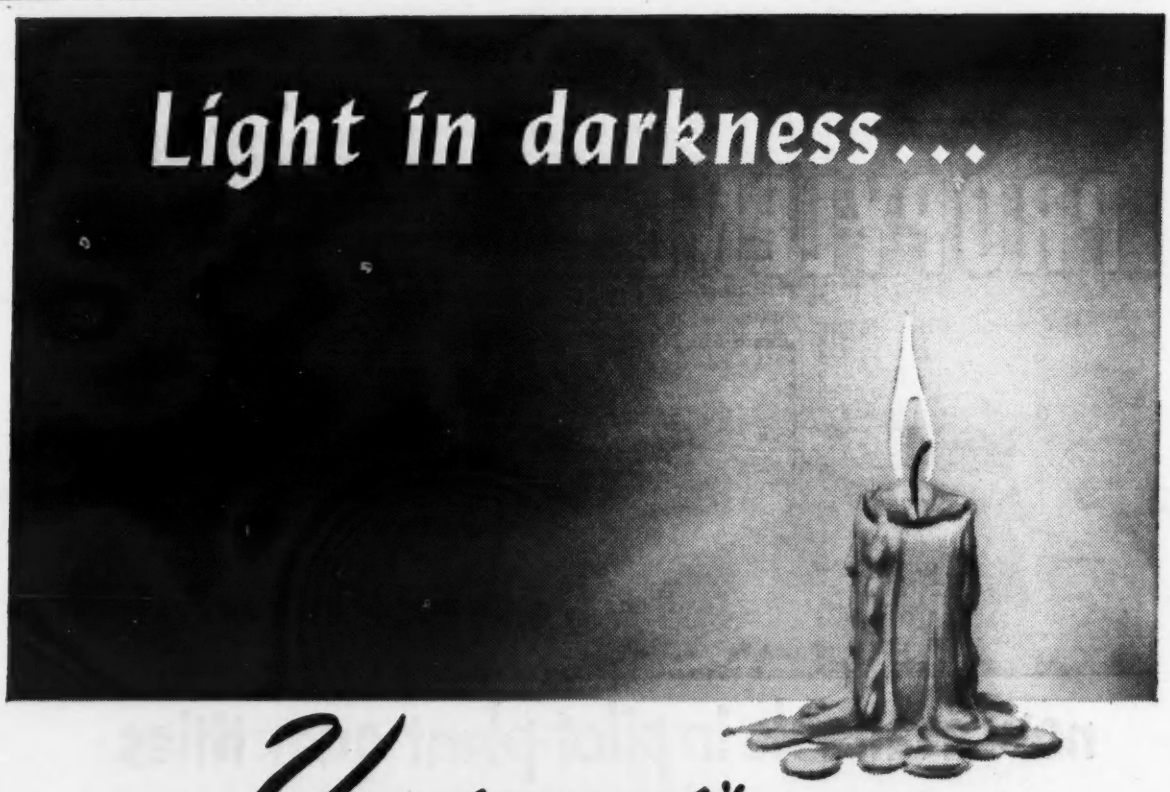
Warehouse Stores: Tenafly, New Jersey; Chicago, Illinois; Houston, Texas

Essential Chemicals From Hydrocarbon Sources:
Ethylene Oxide
Ethylene Glycol
Ethylene Dichloride
Diethylene Glycol
Monoethanolamine
Diethanolamine
Triethanolamine
Nonyl Phenol

Diethylstilbestrol—Dyes, Coaltar, General Use, No. 978

Diethylstilbestrol, USP, bots., 10-kilo lots	kilo.	115.00	-150.00
1 kilo lot	kilo.	135.00	-150.00
Digitalis leaves, USP, dom., dms.	lb	1.10	- 1.15
Digitoxin, USP, bots	gram.	6.50	- 8.00
Diglycol laurate, dms	lb.	.30½	- .34
Oleate, dms	lb.	.28½	- .29½
Stearate, dms	lb.	.25	- .26½
Dihexyl sebacate, dms., c.l., works.	lb.	.76½	—
l.c.l., works	lb.	.77½	—
tanks, works	lb.	.74¾	—
Dihydrazine sulphate, dms., works	lb.	1.10	- 1.25
Dihydrostreptomycin, either hydrochloride or sulphate, bulk.	gram.	.24	- —
Dihydroxydichlorodiphenylmethane, pure, dms	lb.	2.80	- 3.00
tech., dms	lb.	1.15	- 1.25
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.15¼	—
l.c.l., dvld	lb.	.16¼	—
tanks, dlvd	lb.	.13½	—
Phthalate, dms., c.l., dlvd. E	lb.	.34¾	—
l.c.l. dlvd. E	lb.	.35¾	—
tanks, dlvd., E	lb.	.33	- —
Di-isobutylene, dms., c.l., works	lb.	.09½	—
l.c.l., works	lb.	.10	- —
tanks, works	lb.	.07½	—
Di-iso-octyl phthalate, dms., c.l., dlvd	lb.	.38¾	—
l.c.l., same basis	lb.	.39¾	—
tanks, same basis	lb.	.37	- —
Di-isopropylamine, dms., c.l., dlvd. E of Rockies	lb.	.49¾	—
l.c.l., same basis	lb.	.50¾	—
tanks, same basis	lb.	.48	—
Diliseed, dewhiskered, bgs	lb.	.12½	Nom.
natural, bgs	lb.	.11	- .11½
Dimethyl anthranilate, cns	lb.	5.50	- 5.90
Chloroacetal, dms., c.l., works	lb.	.53	- —
l.c.l., works	lb.	.55	- —
tanks, works	lb.	.51	- —
Hydroquinone, dms.	lb.	2.25	- 2.75
Phthalate, dms., c.l., dlvd	lb.	.29¼	- —
l.c.l., dlvd	lb.	.30¼	- —
tanks, dlvd	lb.	.27½	- —
Sebacate, dms., c.l., works	lb.	1.31¾	- —
l.c.l., works	lb.	1.32¾	- —
tanks, works	lb.	1.30	- —
Sulphate, 55-gal. ret. dms., c.l., works	lb.	.15	- —
l.c.l., works	lb.	.16	- —
10-gal. ret dms., works	lb.	.16½	—
Dimethylamine, 25-40%, dms., c.l., works, basis 100%	lb.	.37	- .38
l.c.l., works, basis 100%	lb.	.37½	- .38½
tanks, works, basis, 100%	lb.	.33	- —
Dimethylanilin, dms., c.l., frt. alld.	lb.	.26	- —
l.c.l. frt. alld	lb.	.27	- —
tanks, frt. alld	lb.	.25	- —
Dimethylethanolamine, anhydrous, dms., c.l., dlvd	lb.	1.43	- —
l.c.l., dlvd	lb.	1.45	- —
tanks, dlvd.	lb.	1.40	- —
70%, dms., c.l., dlvd., basis 100%	lb.	.54	- —
l.c.l., dlvd.	lb.	.55	- —
tanks, dlvd.	lb.	.52¼	- —
Dimethylformamide, dms., works	lb.	.37	- —
tanks, works	lb.	.34	- —
Dinitroanilin, dms., frt equald	lb.	.57	- —
Dinitrobenzene, crude, dms	lb.	.20	- —
purified, dms	lb.	.22	- —
Dinitrochlorobenzene, dms., c.l., frt. alld. E	lb.	.15¼	—
l.c.l., frt. alld. E	lb.	.15¾	—
tanks, frt. alld. E	lb.	.15	- —
Dinitrophenol, bbls	lb.	.34	- —
Dinitrotoluene, oily, dms	lb.	.10	- —
refd., dms	lb.	.21	- —
Dioctyl adipate, dms., c.l., works	lb.	.44¾	- —
l.c.l., works	lb.	.45¾	- —
tanks, works	lb.	.43	- —
Phthalate, dms., c.l., frt. alld	lb.	.38¾	- .41¾
l.c.l., frt. alld	lb.	.39¾	- .42¾
tanks, frt. alld	lb.	.37	- .40
Diorthotolylguanidin, dms., ton lots, dlvd	lb.	.34	- —
smaller lots, dlvd	lb.	.35	- —
Dioxane, dms., c.l., works	lb.	.28¾	- —
l.c.l., same basis	lb.	.29¼	- —
tanks, same basis	lb.	.27	- —
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., c.l., works,	lb.	.34	- —
l.c.l., works	lb.	.37	- —
Dipentene, dest-dist., dms., extra, c.l., works	gal.	.49	- —
l.c.l., works	gal.	.50	- —
whse	gal.	.68	- —
steam-dist., dms., c.l., works, South	gal.	.60	- —
l.c.l., works, South	gal.	.69	- —
dlvd. N. Y.	lb.	.83	- —
Diphenyl, bbls, c.l., works	lb.	.15	- —
l.c.l., works	lb.	.16	- —
Price in bags ¼c. lower.			
Oxide, perfume grade, cns	lb.	.54	- .65
Phthalate, dms., c.l., works	lb.	.51¾	- —
l.c.l., same basis	lb.	.53¾	- —
Diphenylamine, refined, gran., bbls., c.l., works	lb.	.26	- —
l.c.l., works	lb.	.30	- —
tanks, works	lb.	.25	- —
tech, tanks, works	lb.	.24	- —
Diphenylguanidin, dms., ton lots	lb.	.44½	- —
smaller lots	lb.	.45½	- —
Diphenylhydantoin-sodium, USP, dms.	lb	5.30	- 5.60
Dipropylenegiycol, dms., c.l., frt. alld	lb.	.16¾	- .17
l.c.l., same basis	lb.	.17¾	- .18
tanks, same basis	lb.	.15	- —
Methylether, dms., c.l., dlvd. E	lb.	.20¾	- —
l.c.l., same basis	lb.	.21¾	- —
tanks, same basis	lb.	.19¼	- —
Di-secondary-amylphenol, dms., c.l., works	lb.	.30¼	- —
l.c.l., works	lb.	.33¼	- —
tanks, works	lb.	.28¼	- —
Di-tertiary-amylphenol, dms., c.l., works	lb.	.30¼	- —
l.c.l., works	lb.	.33¼	- —
tanks, works	lb.	.28¼	- —
Di-tertiary-butylmetacresol, dms., c.l., works	lb.	.31	- —
l.c.l., works	lb.	.32	- —
tanks, works	lb.	.30	- —
Di-tertiary butylparacresol, dms., c.l., works	lb.	.91	- —
l.c.l., works	lb.	.95	- —
Divi-divi, 45% tannin bgs., bls., c.l., U.S. ports, exdock	ton.	70.00	-72.00
Divinylbenzene 20-25%, dms., c.l., works	lb.	.20	- —
l.c.l., works	lb.	.21	- —
tanks, works	lb.	.19	- —
40-50%, basis 100%, dms., c.l., works	lb.	1.00	- —
l.c.l., works	lb.	1.15	- —
Dodecylbenzene, dms., c.l., works	lb.	.16	- —
l.c.l., works	lb.	.17	- —
tanks, works	lb.	.13½	—
Doggrass root, dom., cut, bls	lb.	.26	- .28
imp., cut, bls	lb	.28	- .35
Dogwood bark, Jamaica, bls	lb	.11	-.13
Dragon's blood, mass, cs	lb	1.25	- 1.30
reeds, cs	lb.	1.40	- 1.45
Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb and 1-lb lots dlvd:—			
Blue, FD&C, No. 1, cns	lb.	17.00	-17.60
No. 2, cns	lb	17.00	-17.60
Green, FD&C, No. 1, cns	lb	17.00	-17.60
No. 2, cns	lb	22.20	-22.85
No. 3, cns	lb	35.25	-35.90
Orange, FD&C, No. 1, cns	lb	3.65	- 3.75
No. 2, cns	lb	4.65	- 4.75
Red, FD&C, No. 2, cns	lb	7.55	- 7.85
No. 2, cns	lb	4.00	- 4.10
No. 3, cns	lb	22.20	-22.85
No. 4, cns	lb	7.20	- 7.50
No. 32, cns	lb	5.30	- 5.40
Violet, FD&C, No. 1, cns	lb	17.00	-17.60
Yellow, FD&C, No. 1, cns	lb	10.50	-11.05
No. 3, cns	lb	3.30	- 3.40
No. 4, cns	lb	3.30	- 3.40
No. 5, cns	lb	4.00	- 4.10
No. 6, cns	lb	4.00	- 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb lots dlvd:—			
Black, D&C, No. 1, cns	lb.	10.95	- —
Blue, D&C, No. 4, cns	lb.	13.55	- —
Brown, D&C, No. 1, cns	lb.	16.10	- —
Green, D&C, No. 5, cns	lb.	16.10	- —
No. 6, cns	lb.	16.10	- —
No. 7, cns	lb.	14.80	- —
Orange, D&C, No. 3, cns	lb.	10.95	- —
No. 4, cns	lb.	20.05	- —
No. 5, cns	lb	5.70	- —
No. 10, cns	lb.	20.70	- —
Red, D & C, No. 5, cns	lb.	3.75	- —
No. 9, cns	lb	3.75	- —
No. 10, cns	lb	3.00	- —
No 11, cns	lb.	2.25	- —
No. 12, cns	lb.	5.00	- —
No. 17, cns	lb.	10.05	- —
No. 18, cns	lb	24.00	- —
No. 19, cns	lb.	20.05	- —
No. 21, cns	lb	4.70	- —
No. 22, cns	lb.	10.95	- —
No. 28, cns	lb.	24.65	- —
No. 33, cns	lb.	17.45	- —
Violet, D&C, No. 2, cns	lb.	16.10	- —
Yellow, D&C, No. 7, cns	lb.	10.95	- —
No. 8, cns	lb.	10.95	- —
No. 10, cns	lb.	13.50	- —
No. 11, cns	lb.	13.50	- —
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb lots, works, 25-50 lb lots, dlvd:—			
Blue, Ext., D&C, No. 1, cns	lb.	16.10	- —
Green, Ext., D&C, No. 1, cns	lb.	16.10	- —
red, Ext., D&C, No. 1, cns	lb.	13.50	- —
Yellow, Ext, D&C, No. 1, cns	lb.	10.95	- —
20 Orange AD	lb.	.64	- —
27 Fast light orange 2G	lb.	.78	- —
Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).			
31 Phloxine 2G	lb.	.64	- —
36 Alizarine yellow 2G	lb.	.83	- —
40 Orange II extra, conc	lb.	1.06	- —
57 Fuchsine 6B	lb.	.57	- —
79 Scarlet 2R	lb.	.74	- —
151 Orange Y	lb.	.47	- —
161 Orange RR	lb.	.55	- —
176 Fast red A, conc	lb.	.90	- —
179 Azo rubine XX, conc	lb.	1.04	- —
180 Blue F4B	lb.	.92	- —
185 Brilliant scarlet 3RN, conc.	lb.	.93	- —
202 Chrome blue black, conc	lb.	.68	- —
203 Chrome black T	lb.	.71	- —
208 Fast blue 3R	lb.	.91	- —
216 Chrome red B	lb.	.74	- —
234 Resorcin brown	lb.	.89	- —
246 Blue black, extra, conc	lb.	.86	- —
275 Milling red 3R, conc	lb.	2.03	- —
289 Navy blue 3R, conc., 125%	lb.	1.09	- —
299 Black F, conc	lb.	1.40	- —
304 Neutral black 2B, conc., 200%	lb.	2.01	- —
326 Fast scarlet 4BNC	lb.	1.64	- —
332 Bismarck brown RX, conc.	lb.	.86	- —
365 Brilliant yellow, conc	lb.	2.34	- —
382 Scarlet B	lb.	1.65	- —
401 Diazo black, BHD	lb.	.63	- —
406 Blue 2B extra conc	lb.	1.07	- —
419 Diamine fast red FC	lb.	1.12	- —
420 Diamine brown M	lb.	.90	- —
448 Benzo purpurine 4B, conc.	lb.	1.18	- —
518 Diamine sky blue FF, extra, conc., 150%	lb.	2.25	- —
561 Trisulphon brown BCW, conc	lb.	2.03	- —
581 Direct black E, double	lb.	.69	- —
593 Diamine green BXN, conc. 150%	lb.	.97	- —
598 Congo brown GG, conc. 150%	lb.	1.46	- —
620 Stilbene yellow G, conc	lb.	.92	- —
639 Xylene light yellow GX	lb.	1.79	- —
640 Tartrazine, conc	lb.	1.46	- —
655 Auramine, conc	lb.	1.85	- —
667 Victoria green sml. cryst.	lb.	2.10	- —
662 Brilliant green cryst	lb.	2.79	- —
667 Brilliant milling green B, conc	lb.	3.68	- —
671 Brilliant Blue E	lb.	1.73	- —
680 Methyl violet S, conc	lb.	1.10	- —
681 Crystal violet powder	lb.	2.15	- —
698 Formyl violet S4B	lb.	1.50	- —
720 Chrome azure blue BR, conc. 200%	lb	3.75	- —
729 Victoria blue B, conc	lb.	2.79	- —
739 Green SN, extra	lb.	2.41	- —
749 Rhodamine B, extra	lb.	4.33	- —
814 Fast yellow NNL, conc. 175%	lb.	3.11	- —
841 Safranine T, extra, conc., 125%	lb.	2.90	- —
865 Nigrosine WSJ	lb.	.68	- —
922 Methylene blue ZX	lb.	1.55	- —
969 Sulphanthrene blue GR paste,	lb.	.76	- —
978 Sulphogene carbon HCF grains	lb.	.33	- —



the Versenes*

LIGHT ON THE VERSENES*

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VERSENE-T complexes ferric and divalent metal ions including hard water salts in *any* caustic solution. (55.5% solution)

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CALCIUM DI-SODIUM VERSENATE (25% solution) Chemically Pure grade material for use as stabilizers in drugs, vitamins, pharmaceuticals.

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Chas S. Tanner Co., 1815 Liberty Life Bldg., Charlotte, North Carolina

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype):

1034	Alizarin red S, conc	lb.	2.59	—
1054	Anthraquinone blue B	lb.	2.91	—
1096	Indanthrene golden orange G, single paste	lb.	2.00	—
	double paste	lb.	4.00	—
1099	Indanthrene dark blue BO, single paste	lb.	1.75	—
1101	Brilliant green B, double paste	lb.	2.36	—
1106	Indanthrene blue RS, double paste	lb.	2.57	—
1113	Indanthrene blue GCD, double paste	lb.	1.75	—
1150	Indanthrene olive R, single paste	lb.	1.10	—
1151	Indanthrene brown R, single paste	lb.	1.68	—
	double paste	lb.	3.35	—
1212	Sulphanthrene red violet 2RN, single paste	lb.	1.62	—
1217	Sulphanthrene orange R, single, paste	lb.	1.65	—
p-4	Acid anthracene brown PGN,	lb.	2.31	—
p-14	Anthracene chromate brown EBN	lb.	1.31	—
p-24	Benzo fast black L, conc., 150%	lb.	2.18	—
p-80	Diazo brilliant scarlet ROA	lb.	2.79	—
p-202	Zambesi black V	lb.	1.68	—
p-313	Naphthol AS-SW	lb.	2.42	—
p-244	Celliton scarlet B	lb.	1.31	—
1078	Anthraquinone green G	lb.	2.72	—
1085	Alizarin blue black B	lb.	2.33	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

	Black blue No. 550	lb.	.81	—
	Jet, No. 551	lb.	.89	—
	Brown R, conc	lb.	1.72	—
	Orange R, brilliant	lb.	.90	—
	Red 4 B, conc	lb.	1.37	—
	Yellow C	lb.	1.18	—
	FN, conc	lb.	1.22	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms, sellers' works:—

	Auramine, O	lb.	1.83	—
	Black, basic blue	lb.	1.21	—
	Jet	lb.	1.21	—
	Blue, methylene, 2 B, conc	lb.	1.55	—
	Brown, Bismarck, R, conc	lb.	.86	—
	Chrysodine, R, extra	lb.	.60	—
	Y, extra	lb.	.64	—
	Fuchsine, conc	lb.	3.08	—
	Green, malachite, conc	lb	2.10	—
	Rhodamine B	lb.	4.33	—
	Safranine, Y, conc	lb.	2.90	—
	Violet, methyl, B	lb.	1.10	—

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:

	Azo rubine R, extra, conc	lb.	1.04	—
	Black, acid blue, B, extra	lb.	.86	—
	Orange Acid, Y, conc	lb.	.47	—
	Scarlet croceine, MOO	lb.	1.45	—
	Yellow azo-, conc	lb.	.90	—
	Fast light, 3 G, extra	lb.	2.04	—
	Methanil, conc	lb.	.91	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls	lb.	.90	Nom.
Egg albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	1.03	- 1.05
Chinese, spot, bbls., duty paid	lb.	No stocks.	
tanners bbls	lb.	.06	- .06½
Elder flowers, bright, bls	lb.	.30	- .40
Elecampane root, bls	lb.	.23	- .25
Elm bark, grinding, bls	lb.	.28	- .29
powd., bbls., bxs	lb.	.46	- .47
select, bundles	lb.	.60	- .61
Emetine hydrochloride, USP, bots.,	oz.	35.00	-42.85
Ephedrine synthetic, USP, anhydrous bots., 100-oz. lots	oz.	.98	- 1.00
hydrous, bots., 100-oz. lots	oz.	.92	—
Hydrochloride, tin, 100-oz. lots	oz.	.75	—
Sulphate cryst., tins, 100-oz. lots	oz.	.72	—
powd., tins, 100-oz. lots	oz.	.73	—
Epichlorohydrin, dms., c.l., works	lb.	.38¾	—
l.c.l., works	lb.	.39½	—
tanks, works	lb.	.37	—
Epinephrine, synth., USP, bots., 100 grams	gram.	.45	- .55
Epsom salt, tech., bgs., c.l., works,	100 lbs.	2.15	—
l.c.l., works	100 lbs.	2.00	- 3.15
USP, cryst., bgs., c.l., works,	100 lbs.	2.35	—
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	3.10	—
smaller lots	100 lbs.	3.35	—
Ergosterol, unirradiated, cryst	kilo	150.00	—
Ergot, NF, dms., tin-lined	lb.	4.00	- 4.25
Eserine, bots	oz.	45.00	-50.00
Salicylate USP bots	oz.	32.50	-34.00
Sulphate bots	oz.	34.50	-35.50
Ether acetate (see Ethyl acetate).			
Butyl, dms., c.l., works	lb.	.31½	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, rerd., dms., c.l., frt. alld. E	lb.	.14	- .14½
l.c.l., same basis	lb.	.15	- .16
tanks, same basis	lb.	.13	—
technical, dms., c.l., works	lb.	.13	—
l.c.l., works	lb.	.13½	—
tanks, works	lb.	.12	—
Ethyl, absolute, ACS, dms	lb.	.37	—
anesthesia, USP, hospitals, 1-lb. cns	lb.	.89	—
½-lb cns	lb.	.97	—
¼-lb cns	lb.	1.05	—
solvent USP dms., c.l., dlvd.	lb.	.15¾	—
l.c.l., same basis	lb.	.16¾	—
tanks, same basis	lb.	.13¾	—
synthetic, dms., c.l., dlvd. E	lb.	.1575	—
l.c.l., same basis	lb.	.1675	—
tanks, same basis	lb.	.1375	—
Isopropyl, dms., c.l., dlvd	lb.	.0675	- .0850
l.c.l., dlvd.	lb.	.0750	- .0938
tanks, dlvd	lb.	.05	- .07½
Nitrous, conc., bots., 100-lb. lots	lb.	1.23	- 1.35
Vinyl, USP, anesthesia, bots., 50 cc, hospitals	bot.	1.12	—
75 cc hospitals	bot.	1.56	—
Ethyl acetate, natural, fermentation 85-88%, dms., c.l., frt. alld.	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11	—
95-98%, dms., c.l., frt. alld.	lb.	.13	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11¼	—
99%, dms., c.l., frt. alld	lb.	.13¼	—
l.c.l., frt. alld	lb.	.14	—
tanks, frt alld	lb.	.11½	—
NF, dms., frt. alld	lb.	.24	- .25
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13½	—
tanks, frt alld	lb.	.11	—
95-98%, dms., c.l., frt. alld.	lb.	.13	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11¼	—
99%, dms., c.l., frt. alld.	lb.	.13¼	—
l.c.l., frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11½	—
Ethyl acetoacetate, dms., c.l., dlvd.	lb.	.55	—
l.c.l., dlvd	lb.	.56½	—
Acrylate, dms., c.l., and truckload, dlvd	lb.	.49	—
less than truckload, dlvd	lb.	.49½	—
tanks, dlvd	lb.	.48	—
Aminobenzate, USP (see Benzocaine).			
Benzoate, cns., dms	lb.	.74	- .79
Bromide, tech., 98%, dms	lb.	.43	- .47
Butyrate, works	lb.	.80	- 1.02
Carbamate (see Urethane).			
Chloride, tech., dms., c.l., works,	lb.	.18	- .20
cyls., c.l., same basis	lb.	.20	- .22
tanks, same basis	lb.	.10	—
USP bbls., cyls	lb.	.22	- .24
Cinnamate, cns	lb.	2.28	- 2.53
Formate, dms	lb.	.60	—
Gallate, dms., 100 to 2,000-lb. lots	lb.	3.90	- 4.40
Iodide, bots., works	lb.	4.13	—
Lactate, dms., works	lb.	.47½	—
Methacrylate, dms., c.l., and truckload works	lb.	.50	—
less than truckload, works	lb.	.50½	—
Nitrite (see Ether nitrous).			
Oenanthate, dms	lb.	1.00	- 1.50
Oleate, dms., l.c.l., works	lb.	No prices.	
Oxalate (see Diethyl oxalate).			
Silicate, dist. (see Tetraethylorthosilicate).			
40% available SiO, dms., works,	lb.	.60½	—
Ethylalphanaphthylamine (see Monoethylalphanaphthylamine).			
Ethylamine (see Mono-, Di-, or Tri-)			
Ethylaniline (see Monoethylaniline).			

Dyes, Coaltar, General Use, No. 1034—Feldspar

Ethylbenzene, 99%, dms., c.l.	lb.	.14	- .20¼
l.c.l.	lb.	.15	- .21¼
tanks	lb.	.13	- .18½
Ethylbutyl ketone, dms., c.l., works,	lb.	.33½	—
l.c.l., works	lb.	.34	—
tanks	lb.	.32	—
Ethylcellulose, vis. 7 cps., bgs., 5,000 lb. lots or more, works	lb.	.70	—
smaller lots, works	lb.	.72	- .80
vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works	lb.	.65	—
smaller lots	lb.	.67	- .75
Ethylene dichloride, dms., c.l., dlvd. E	lb.	.11¾	—
l.c.l., same basis	lb.	.12¾	—
tanks, same basis	lb.	.10	—
Ethylene dichloride prices W. of Rockies, 1c per lb. higher.			
Oxide, cyls., c.l., works	lb.	.26	—
l.c.l. works	lb.	.27	—
tanks, dlvd. E	lb.	.19	—
Trichloride (see Trichloroethane).			
Ethylenediamine, 76%, basis 100%, dms., c.l., dlvd.	lb.	.49	—
l.c.l., dlvd.	lb.	.50	—
tanks, dlvd	lb.	.47	—
Ethyleneglycol, dms., c.l., frt. alld. E	lb.	.18¾	—
l.c.l. same basis	lb.	.19¾	—
tanks, same basis	lb.	.17	—
Monobutylether, dms., c.l., dlvd.	lb.	.22½	—
l.c.l., dlvd.	lb.	.23½	—
tanks, dlvd.	lb.	.21	—
Monoethylether, dms., c.l., dlvd.	lb.	.20	—
l.c.l. dlvd.	lb.	.21	—
tanks, dlvd.	lb.	.18½	—
Ethyleneglycol monoethylether acetate, dms., c.l., dlvd	lb.	.18¼	—
l.c.l., dlvd.	lb.	.19¼	—
tanks, dlvd.	lb.	.16½	—
Monomethylether, dms., c.l., works	lb.	.22	—
l.c.l., works	lb.	.22½	—
tanks, works	lb.	.21	—
Monomethylether acetate, dms., c.l., works	lb.	.23¾	—
l.c.l., works	lb.	.29¼	—
tanks, works	lb.	.27	—
Monostearate, dms	lb.	.30	- .37
Ethylethanolamines, mixed, dms., c.l. frt alld., E. Miss	lb.	.42	—
l.c.l., same basis	lb.	.43	—
tanks, same basis	lb.	.40	—
Ethylmorphine hydrochloride, USP, bots	oz.	11.85	—
Ethylorthotoluidine (see Monoethyl-orthotoluidin).			
Ethylvanillin, cns., 25-lb. lots	lb.	6.75	- 7.30
smaller lots	lb	7.35	- 7.40
Eucalyptol, USP, cns., dms	lb.	1.65	- 1.90
Eucalyptus leaves, bls	lb.	.10	- .11
Eugenol, pure, USP, bots	lb.	2.90	- 3.45
Euphorbia herb, bls	lb.	.12	- .14

F

Feldspar, enamel, 100 mesh, bgs., works	ton.	20.00	-22.00
Glass, 20 mesh, bulk, tons, works	ton.	11.75	-12.50
Pottery, bgs., ton lots, works	ton.	20.00	-22.00
bulk, c.l., works	ton.	18.00	-20.00

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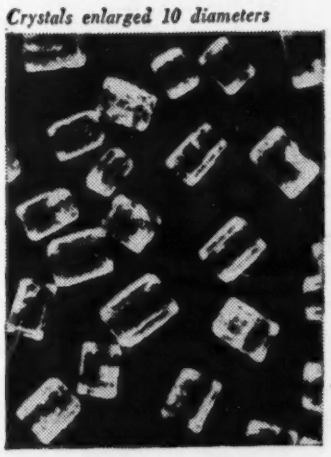

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- ☐ Superior quality
- ☐ Extremely low in heavy metals

PRODUCED IN TONNAGE quantities in a special free-flowing, highly uniform crystal form, B&A Purified Ammonium Sulfate differs distinctly from ordinary commercial ammonium sulfate. It is not a by-product material but is produced by B&A as a basic fine chemical from pure raw materials. It assays over 99% $(NH_4)_2SO_4$ and is extremely low in iron, lead and arsenic, thus providing a superior quality for many exacting uses.

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REAGENTS B&A STANDARD OF PURITY FINE CHEMICALS

Fennel Seed—Gum, Dammar, East India, Batu

Fennel seed, Czech, dark, bgs...lb. .20 - .21
French, bgs...lb. .24 - .24½
Syrian, light, bgs...lb. .29 - .29½
Fenugreek seed, Moroccan, bgs...lb. .06 - —
Ferric-ammonium citrate (see Iron ammonium citrate).
Ferric cacodylate (see Iron cacodylate).
Ferric glycerophosphate (see Iron glycerophosphate).
Ferric hypophosphite (see Iron hypophosphite).
Ferric sulphate (see Iron sulphate-ferric).
Ferrous gluconate, NF, dms...lb. .88 - .97
Fir balsam, Canada, cns...gal.32.50 -33.50
Oregon, bbls...gal. 2.85 - 3.50
Fishberries, bgs...lb. .17 - .21
Fishliver oil (see Oil, fishliver).
Fishmeal ground, domestic, 60% protein, bulk, Balto area...ton.135.60 - —
Fishscrap, dried 60% protein, bulk, Balto area...ton.129.60 - —
Fluorspar, acid grade, bulk, c.l., mine...ton.60.00 - —
ceramic grade, 95-98% CaF_2, grd., bulk, mine, c.l...ton.47.00 Nom.
85% CaF_2, grd., bulk, mine...ton.41.50 Nom.
metallurgical grade, foundry, lump, 55-60% effective CaF_2, bulk, mine, c.l., ton.38.00 Nom.
washed gravel, 59-60% effective CaF_2, bulk, mine, c.l...ton.38.00 Nom.
60-65% effective CaF_2, bulk, mine...ton.39.00 - —
65-70% effective CaF_2, bulk, mine, c.l...ton.40.00 Nom.
Fluorspar, metallurgical grade, washed gravel, 70% or better, effective CaF_2, bulk, mine, c.l...ton.41.00 - —
imported, bulk, ex dock, New York...ton.37.00 Nom.
Formaldehyde, NF (inhibited), dms., c.l., E., works...lb. .0625- —
l.c.l., E. works...lb. .0675- —
tanks, E. works...lb. .0420- —
methanol-free (uninhibited), tanks, works...lb. .0395- —
Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.
Fleaseed (see Psyllium seed).
Fringetree bark, bls...lb. .60 - .61
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga., mines...ton.36.50 - —
Illinois mines...ton.37.20 - —
spent, bulk, Bayonne...ton. 2.00 4.00
imported, bgs., c.l...ton.30.00 -40.00
Furfural, tech., dms., c.l., works...lb. .13 - —
l.c.l., works...lb. .15 - —
tanks, works...lb. .108 - —
Fusel oil, refined, dms., c.l., dlvd...lb. .16¾- —
l.c.l., dlvd...lb. .17½- —
tanks, dlvd...lb. .15 - —
Fustic extract, cryst., No. 1, bbls., L.c.l...lb. .47½- —
No. 2, bbls., l.c.l...lb. .45½- —
No. 3, bbls., l.c.l...lb. .43½- —
liquid, No. 1, bbls., l.c.l...lb. .22½- —
No. 2, bbls., l.c.l...lb. .21½- —
No. 3, bbls., l.c.l...lb. .19 - —
solid, No. 1, bxs., l.c.l...lb. .45 - —

G

G salt, bbls., frt. alld...lb. .73 - —
Galangal root, bls...lb. .18 - .25
Gammapicoline, 95%, dms., c.l., works...lb. 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane tanks...gal. .1075- —
N. Y. Harbor, 86 octane, tanks...gal. .1285- .138
Group 3, 82 octane, tanks...gal. .10375- .105
Gulf coast, 82 octane, tanks...gal. .1125- .1130
Penn., western U. S. motor, 86 octane, tanks...gal. .1275- .129
natural, group 3, 26-70 octane, tanks...gal. .06875- —
Gelatin, silver label, imported...cs.lb. 1.25 - —
Gelsemium root, bls...lb. .26 - .27
Gentian root, bls...lb. .17 - .18
grd., bbls., bxs...lb. .22 - .23
powd., bbls., bxs...lb. .23 - .24
Geraniol, extra, cns., dms...lb. 1.55 - 1.65
standard, cns., dms...lb. .75 - 1.50
Geranyl acetate, cns...lb. 1.55 - 1.80
Ginger, oleoresin, NF, from African roots, bots...lb. 4.00 - 7.75
from Jamaican root, bls...lb. 5.00 -12.75
Root, African, bls...lb. .14¾- .15
Cochin, unbleached, bgs...lb. .18½- —
Jamaica, No. 1, bgs...lb. .24 - —
No. 2, bgs...lb. .18 - —
No. 3, bgs...lb. .17 - —
Rhattoon, bgs...lb. .16 - —
Nigerian, split, bgs...lb. .11½- .12
Ginseng root, cs...lb.16.50 -17.00
Glauber's salt, anhyd (see Sodium sulphate).
cryst., bgs. c.l., works, frt. alld...ton.45.00 - —
l.c.l., works...ton.50.00 - —

Glue, bone, extracted, 66 jellygrams, bgs., c.l., dlvd...lb. .24½- —
86 jellygrams, same basis...lb. .25 - —
104 jellygrams, same basis...lb. .25¼- —
131 jellygrams, same basis...lb. .26 - —
164 jellygrams, same basis...lb. .26½- —
191 jellygrams, same basis...lb. .27 - —
222 jellygrams, same basis...lb. .28 - —
packers' 40 jellygrams, bgs., c.l., dlvd...lb .21½- —
65 jellygrams, same basis...lb. .22½- —
86 jellygrams, same basis...lb. .23 - —
115 jellygrams, same basis...lb. .24 - —
135 jellygrams, same basis...lb. .25 - —
164 jellygrams, same basis...lb. .26 - —
185 jellygrams, same basis...lb. .27 - —
renderers' 110 jellygrams, bgs., c.l., dlvd...lb. .22 - —
Bone glue, l.c.l. prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd...lb. .26 - —
95-121, bgs., c.l., dlvd...lb. .27½- .28
122-149, bgs., c.l., dlvd...lb. .29 - .29¼
150-177, bgs., c.l., dlvd...lb. .30 - .31
178-206, bgs., c.l., dlvd...lb. .31 - .32
207-236, bgs., c.l., dlvd...lb. .32 - .33
237-266, bgs., c.l., dlvd...lb. .33 - .34
267-296, bgs., c.l., dlvd...lb. .34 - .35
299-330, bgs., c.l., dlvd...lb. .35 - .36
331-362, bgs., c.l., dlvd...lb. .36 - .37
363-394, bgs., c.l., dlvd...lb. .37 - .38
395-427, bgs., c.l., dlvd...lb. .38 - .39
428-460, bgs., c.l., dlvd...lb. .40 - .41
461-494, bgs., c.l., dlvd...lb. .41 - .43
495-529, bgs., c.l., dlvd...lb. .42 - .45
Hide glue l.c.l. prices 1c. higher than c.l.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd...lb. .26 Nom.
soaplye, 80%, tanks, dlvd...lb. .24 Nom.
dynamite, dms., c.l., dlvd...lb. .33¾- —
l.c.l., dlvd...lb. .34½- —
tanks, dlvd...lb. .33¼- —
high gravity, dms., c.l., dlvd...lb. .34 - —
l.c.l., dlvd...lb. .34½- —
tanks, dlvd...lb. .33½- —
refined, BP, 98%, dms., c.l., dlvd...lb. .35⅝- —
l.c.l., dlvd...lb. .36⅛- —
tanks, dlvd...lb. .35⅛- —
USP, CP, 95%, dms., c.l., dlvd...lb. .34½- —
l.c.l., dlvd...lb. .35 - —
tanks, dlvd...lb. .34 - —
yellow, distilled, dms., c.l., dlvd...lb. .33⅞- —
l.c.l., dlvd...lb. .34⅜- —
tanks, dlvd...lb. .33⅜- —
Glycine, USP (see Acid aminoacetic)
Glyoxal, 30%, dms., c.l. works...lb. .18½- —
l.c.l., works...lb. .19 - —
tanks, works...lb. .18 - —
Gold chloride, acid-brown, bots...oz.23.50 -24.00
acid-yellow, bots...oz.21.00 -21.50
Golden seal root, NF, tested, bls., dms. ex whse...lb. 3.00 - 3.05
powd., bxs...lb. 3.25 - 3.30
Gold-sodium chloride, photo, bots...oz.13.00 -14.00
USP IX, bots...oz.14.50 -15.50
Grains of paradise, bgs...lb. .34 - .34½
Graphite, amorph., powd., bgs., fib. dms. ex whse...lb. .05 - .085
crystalline, 88-90%, powd., bgs., fib. dms., ex whse...lb. .19 - .215
90-92%, powd., bgs., fib. dms., ex whse...lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse...lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex. whse...lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse...lb. .29 - .31
Grease, brown, dlvd...lb. .03½- —
house...lb. .03⅜- —
white, choice...lb. .06 - —
yellow...lb. .04½- —
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works...lb. 4.50 - —
tungstated, PTMA, kgs., works...lb. 6.30 - —
Chrome, CP, dark, light, medium, blue content 5 to 30%, bbls., dlvd, N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. .37 - —
31-50%, bbls., same basis...lb. .37 - .38
50-60%, bbls., same basis...lb. .40 - —
reduced color, 25%, bbls., same basis...lb. .17 - .17½
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., dms., c.l., frt. alld...lb. .95 - 1.20
pure c.l., bgs., frt. alld...lb. .37½- .44
Dyes (see Dyes, coaltar).
Emerald, malachite toner, tungstic, PTMA, bbls., works...lb. 4.50 - 5.50
Paris (see Paris green).
Phthalocyanin toner, bbls., works...lb. 4.40 - —
resinated, bbls...lb. 4.00 - —
water dispersable, bbls...lb. 1.71 - —
Pigment B, kegs...lb. 1.35 - —
Grindelia robusta herb, bls...lb. .38 - .40
Guaiac resin, NF, cs...lb. .55 - .60
ordinary, cs...lb. .49 - .51
Guaiacol, cryst., tins...lb. 1.90 - —
liquid, NF, bots., cbys...lb. 2.15 - 2.20
Carbonate, dms...lb. 3.15 - 3.20
Guarana, powd., cs...lb. 2.00 - —
Gum accroides (see Gum yacca).
Aloe (see A.)
Ammoniac tears, cs...lb. .35 - .63
Arabic, amber sorts, bgs...lb. .15½- .16
powdered, USP, bbls...lb. .19 - .21
Asafetida (see A.)
Asphaltum (see A).
Benzoin, Sumatra, cs...lb. .38 - .40
Camphor (see C).
Cellulose, bgs., 25,000 lbs. or more, works, frt. alld...lb. .80 - —
smaller lots same basis...lb .62 - —
works...lb. 6.50 - —
Copal, Congo, No. 1, bgs...lb. .21 - .23
No. 2, bgs...lb. .19 - .20
No. 3, bgs...lb. .17½- .18½
Manila, toba B, bgs...lb. No prices.
C, bgs...lb. .27 - .32
CBB, bgs...lb. .22 - .23
CNE, bgs...lb. No prices.
DBB, bgs...lb. .14 - .18
DK, bgs...lb. .13 - .15
dust, bgs...lb. .11 - .12½
soft, MA, bgs...lb. .13 - .16
WS, bgs...lb. .27 - .35
Philippine, pale, chips, bgs...lb. .18 - .25
nubs, bgs...lb. .27 - .32
seeds, bgs...lb. .15 - .21
sorts, bgs...lb. .18 - .22
Pontianak, chips, bgs...lb. .22 - .26
nubs, bgs...lb. .36 - 40
Dammar, Batavia, A/E, bgs...lb. .24 - .26
dust, bgs...lb. .14 - .16
E., bgs...lb. .16 - .18
East India, batu, bold, bgs...lb. .12 - .14
nubs and chips, bgs...lb. .08 - .10

Phenolic Resin Manufacturers...

Your present equipment can produce UP TO 95% more...

by using Celanese* PARAFORMALDEHYDE

COST AND PRODUCTION COMPARISON†

TYPICAL FEED OPERATION	CASE 1 FORMALIN	CASE 2 PARAFORMALDEHYDE
No. of 1000 gal. kettles	1	1
Days per week	6	6
Shifts per day	3	3
Batches per day	2	3
Time/batch hrs.	12	8
Weekly costs $	12,480	22,464
Weekly Prod. lbs./per kettle	48,000	93,600
Unit Cost ¢/lb. of resin	26.0	24.15

†FOR A HARD, GRINDABLE PHENOLIC RESIN

- 30% larger batches—paraformaldehyde eliminates excess water bulk.
- ⅓ shorter cycle time—reflux and dehydration steps can be cut by hours.
- greater yields—6½ to 18% lower formaldehyde to phenolic ratio (using paraformaldehyde) produces resins in 1½ to 2½% higher yields.
- new low price makes Celanese Paraformaldehyde competitive with formalin. New production units assure large volume supply.

Celanese Resin Application Laboratory will be glad to assist you in utilizing paraformaldehyde in your resin formulations. For complete data, write for Technical Bulletin N-30, to Celanese Corporation of America, Chemical Division, Dept. 556-K, 180 Madison Avenue, New York 16, New York.

IF YOU PLAN ADDITIONAL INSTALLATION, you can materially reduce your capital investment by using Celanese Paraformaldehyde. No need for heated storage tanks; same output from smaller kettles; less storage space; lower steam, electricity and cooling water costs.

Celanese* CHEMICALS

*Reg. U.S. Pat. Off

Gum, dammar, East India, black, bold, bgs	lb.	.14½	.16
unscraped, bgs	lb.	.12	.13
nubs and chips, bgs	lb.	.11	.13
pale, chips, bgs	lb.	.13	.14
nubs, bgs	lb.	.19	.20
Singapore, No. 1, bgs	lb.	.35	.38
No. 2, bgs	lb.	.29	.32
No. 3, bgs	lb.	.16	.17
dust, bgs	lb.	.14	.16
seeds, bgs	lb.	.16	.18
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va	lb.	.14	.14½
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc	lb.	.14	—
Euphorbium, cs	lb.	.55	.60
Galbanum, cs	lb.	.75	.80
Gamboge, pipe, cs	lb.	.90	1.00
powd., bbls	lb.	.90	1.20
Ghatti, No. 2, bgs	lb.	.35	.37
No. 3, bgs	lb.	.31	.33
Guaiac (see Guaiac resin).			
Karaya, NF, powd., No. 1, bbls.	lb.	.30	.35
No. 2, bbls	lb.	.25	.28
No. 3 bbls	lb.	.22	.23
Kauri, bgs	lb.	.30	.50
Kino, cs	lb.	1.15	2.40
Locust bean, powd., bgs	lb.	.32	.35
Mastic, cs	lb.	2.00	2.10
Myrrh, cs	lb.	.30	.35
Olibanum, siftings, cs	lb.	.16	.18
tears, cs	lb.	.20	.50
Opium (see O).			
Red (see Gum yacca).			
Rosin (see R).			
Sandarac, cks	lb	3.50	4.00
Scammony, cs	lb.	1.50	1.55
Sterculia (see Gum karaya).			
Talha, bgs	lb.	.10	.11
Tragacanth, No. 1, cs	lb.	2.85	2.90
No. 2, cs	lb.	2.45	2.50
No. 3, cs	lb.	1.60	1.70
powdered, USP, bbls	lb.	1.25	1.35
Yacca, bgs	lb.	.06	—
Gypsum, anhydrous filler paper bgs., c.l., Medicine Lodge, Kan	ton.	19.00	—
Plaster of paris, paper bgs., c.l., Baltimore, frt. equald.	ton.	18.30	—
Harlem river, N. Y., frt. equald.	ton.	17.30	—
Medicine Lodge, Kan., frt. equald	ton.	16.00	—
Stucco, paper bgs., Akron, N. Y., frt. equald.	ton.	8.00	—
Blue Rapids, Kans., frt. equald	ton.	8.00	—
Fort Dodge, Iowa, frt equald.	ton.	8.00	—
Gypsum, Ohio, frt. equald.	ton.	8.00	—
Grand Rapids, Mich., frt. equald.	ton.	8.00	—
New Brighton, N. Y., frt. equald	ton.	8.00	—
Plasterco, Ga., frt. equald.	ton.	8.00	—
Roton, Texas, frt. equald.	ton.	8.00	—
Southard, Okla., frt. equald.	ton.	8.00	—
Sweetwater, Texas, frt. equald.	ton.	8.00	—
Terra alba, dom., paper bgs., c.l., Baltimore	ton.	14.40	—
Harlem River, N. Y.	ton.	14.40	—
imported, English, paper bgs., ex dock	ton.	48.00	—
ex warehouse	ton.	53.00	56.00

H

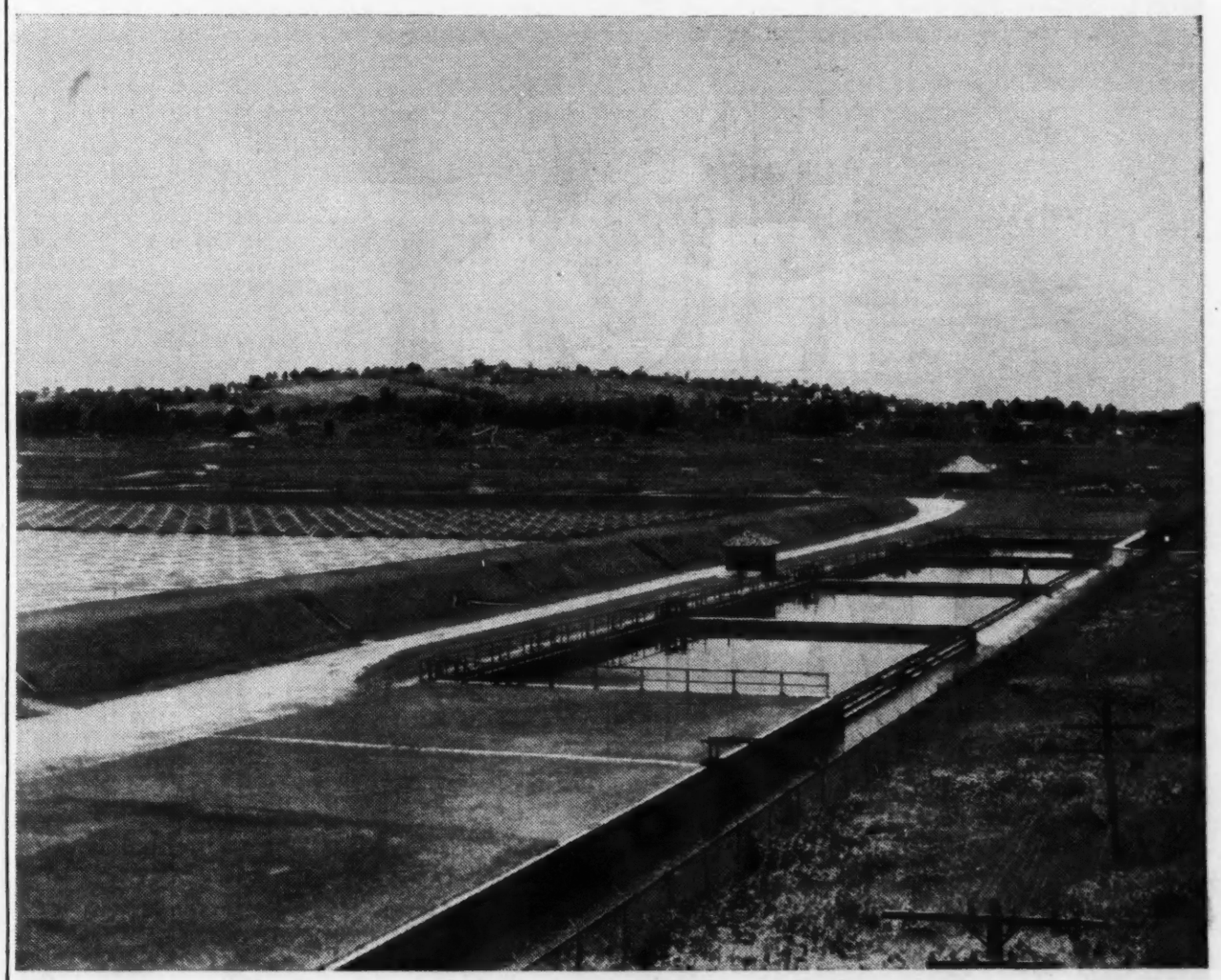
Hawthorn berries, bgs	lb.	.30	.32
Heliotropine, cryst., cns	lb.	3.10	3.45
Helonias root, bls	lb.	1.50	1.55
Hellebore root, dom., green, bls.	lb.	.60	.65
imp., black, whole, bls	lb.	.25	.30
ground, bxs	lb.	.30	.35
powder, bxs	lb.	.32	.37
white, whole, bls	lb.	.25	.30
powder, bxs	lb.	.35	.45
Hematine extract, cryst., No. 1, bbls., l.c.l.	lb.	.47	—
No. 2, bbls., l.c.l.	lb.	.43	—
No. 3, bbls., l.c.l.	lb.	.41	—
No. 4, bbls., l.c.l.	lb.	.39	—
No. 5, bbls., l.c.l.	lb.	.37	—
paste, No. 1, bbls., l.c.l.	lb.	.20½	—
Henbane leaves, bls	lb.	.35	.40
Henna leaves, bls	lb.	.23	.25
powd., bbls., bgs	lb.	.22	.29
Heptane, industrial, Bayonne, N. J., tanks	gal.	.18	—
group 3, tanks	gal.	.1375	.1403
Hesperidin methylchalcone, bots., works	lb.	50.00	—
Hexachlorophene, dms	lb.	2.50	—
Hexalin (see Cyclohexanol).			
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N. Y. C.	lb.	.232	—
less than 1,000-lb. lots, same basis	lb.	.242	—
fib. dms., 1,000-lb. lots or more, same basis	lb.	.239	—
less than 1,000-lb. lots, same basis	lb.	.249	—
USP, dms., 500 lbs. or more, same basis	lb.	.40½	—
smaller lots, same basis	lb.	.41½	—
Hexamine (see Hexamethylene tetramine).			
Hexane, industrial, Bayonne, N. J., tanks	gal.	.18	—
Group 3, tanks	gal.	.143	.148
Hexanol, normal, dms., c.l., works	lb.	.34½	—
l.c.l., works	lb.	.35	—
tanks, works	lb.	.33	—
Hexyl cinnamic aldehyde, dms	lb.	2.25	7.50
Salicylate, dms	lb.	1.75	—
Hexylenegiycol, dms., c.l., dlvd	lb.	.15¾	—
l.c.l., dlvd	lb.	.16½	—
tanks, dlvd	lb.	.14	—
Hexylmethacrylate, normal, dms., less than truckload, works.	lb.	.71	—
Hexylresorcinol, USP, dms., dlvd., 50-lb. lots or more	lb.	15.00	16.00
smaller lots, dlvd	lb.	16.00	17.00
Histamine diphosphate, USP., bots.	kilo.	450.00	—
Histidine hydrochloride, laevo, NF, fib. dms., 50-kilo lots, works.	kilo.	80.00	85.00
1-5 kilo lots works	kilo.	90.00	95.00
Hematropine hydrobromide, USP, bots	oz.	13.75	14.00
Hydrochloride, bots	oz.	20.00	22.00
Methylbromide, USP, bots	oz.	13.00	14.50
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago	unit-ton.	7.00	—
Hops, NF, bls	lb.	.30	.35
Horehound herb, bls	lb.	.14	.15
Hydrangea root, bls	lb.	.22	.25
Hydrastine, bots	oz.	29.50	31.00
Hydrochloride, NF, bots	oz.	29.50	31.00
Sulphate, bots	oz.	35.00	37.00
Hydrastinine, 10-grain bots	bot.	1.95	—
Hydrastis (see Goldenseal).			
Hydrazine, free base, ret. dms., Niagara Falls	lb.	4.50	5.25
Hydrate, 100%, ret. dms., Niagara Falls	lb.	3.00	3.50
85%, same basis	lb.	2.55	3.00
Hydrofuramide, dms., fib. ctns., works	lb.	.30	.40
Hydrogen chloride anhyd., 20-lb. cyl., works	lb.	.55	.60
Peroxide, USP, bbls., dlvd	lb.	.03¾	.05
35%, chys., same basis	lb.	.217	.242
dms., c.l., same basis	lb.	.21	—
l.c.l., same basis	lb.	.215	.24
tanks	lb.	.203	—

Hydrogen peroxide prices on W. Coast 2c per lb. higher.

Hydroquinone, photogrd., bbls., dms.	lb.	.93	1.00
tech., dms., c.l., frt. equald	lb.	.77	—
l.c.l., frt. equald	lb.	.78	—
Hydroxycitronellal, cns	lb.	5.35	5.80
Hyoscine salts (see Scopolamine).			
Hyoscyamine, bots	oz.	15.75	16.00
Hydrobromide, bots	oz.	16.50	18.00
Sulphate, bots	oz.	12.00	13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l.	lb.	.52	—
liquid, No. 1, bbls., l.c.l.	lb.	.35	—
No. 2, bbls., l.c.l.	lb.	.27	—
Hyssop herb, bgs	lb.	.35	.36
Leaves, bgs	lb.	.50	.51

I

Iceland moss, bgs	lb.	.30	.35
Ichthammol, NF, dms	lb.	.60	.75
Indian red (see Red, Indian).			
Indigo, nat., chests	lb	2.14	2.16
synth., paste, 20%, bbls	lb.	.28	.28½
Indol, CP, bots	lb	17.00	21.00
Inositol dms., dlvd	lb	5.60	—
tins, dlvd	lb	5.70	—
Insect flowers (see Pyrethrum).			
Iodine, crude, kgs	lb	1.84	2.04
resublimed, USP, bots., jars	lb	2.55	2.75
Iodochlorohydroxyquin, USP, dms.	lb	6.90	—
Iodoform, NF, dms., kgs	lb	4.70	4.85
Ionone alpha, cns	lb.	3.75	8.15
Beta, cns	lb.	4.30	11.25
Methyl, dms., cns	lb.	3.80	8.40
Ipecac root, bgs	lb.	5.25	5.50
powd., bbls., bxs	lb.	6.00	6.25
Irish moss, bleached, prime, bls	lb.	.25	.30
Iron acetate liquor, 28°, bbls., c.l., works	lb.	.09	—
l.c.l., works	lb.	.09¾	—
solut., USP, IX, chys	lb.	.16	—
dms	lb	.17	—
Cacodylate, NF, bots	lb.	13.00	14.00
Chloride (ferric), anhydr., tech., dms., c.l., works	100 lbs.	6.25	—
l.c.l., works	100 lbs.	7.50	—
cryst., indust., bbls., c.l., works	100 lbs.	5.25	6.25
l.c.l., works	100 lbs.	5.75	6.75
USP, dms., works	lo.	.07½	.09
solut., 42° Be. basis 100%, chys., c.l., works	100 lbs.	7.25	8.25
l.c.l., works	100 lbs.	7.75	10.75
tanks, works	100 lbs.	3.45	—
Citrate, gran., dms	lb.	.77	.80
Gluconate, NF (see Ferrous gluconate, NF).			
Glycerophosphate, NF, powd	lb.	4.45	4.55
Hypophosphite, NF, dms	lb	2.80	—
Iodide bgs	lb	3.66	3.73
Naphthenate liq., 6% Fe., dms., frt. alld	lb.	.23¾	—
Oxalate gran., dms	lb.	.85	.87
Phosphate, soluble, NF, gran., pearls, cs	lb.	.64	.65
Pyrophosphate, soluble, NF VII, gran., pearls, dms	lb.	.78	.81
Reduced, NF, kgs	lb.	.90	.95
Iron resinate, 6.75% Fe, dms., frt. alld	lb.	.26½	—
Stearate, dms., c.l	lb.	.37	—
ton lots	lb.	.38	—
less ton lots	lb.	.39	—
Sulphate, ferric, partially hydrated, bgs., c.l., works	ton.	30.00	—
l.c.l., works	ton.	31.00	—
ferrous, tech. (see Copperas).			
USP, cryst., bbls., dms	lb.	.09½	.10
Iron by hydrogen (see Iron, Reduced).			
Iron-ammonium citrate, brown, N.F., gran., dms	lb.	.55	.60
green, USP XII, gran., dms	lb.	.55	.59
Oxalate, fine gran., dms	lb.	.25½	.28½
Iron-potassium oxalate, fine gran., dms	lb.	.30½	.33½
Iron-sodium, oxalate, fine gran., dms	lb.	.25½	.28½
Isoborneol, cns	lb.	1.25	1.70
Isobornyl acetate, cns	lb.	.60	.70
Formate, dms	lb.	.80	—
Propionate, dms	lb	1.15	1.50
Isobutyl acetate, perfume grade, cns.	lb.	.75	.97
solvent grade, dms., c.l., dlvd. E. of Rockies	lb.	.14	—
l.c.l., same basis	lb.	.14¾	—
tanks, same basis	lb.	.12¼	—
Methacrylate, dms., works	lb.	.60	—
Isobutyraldehyde, dms., dlvd	lb.	.50	—
Isoeugenol, cns	lb.	3.70	4.40
Isoniazid, bulk, powder, 25-kilo lots or more	kilo.	40.00	48.00
smaller lots	kilo.	48.00	—
Isonicotinic acid hydrazide (see Isoniazid).			
Isopentane, dms., works	lb.	.43	.53



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CHLORINE (liquid)—Water works grade in cylinders and ton containers.

FERRIC CHLORIDE (anhydrous)—In 150 lb. and 350 lb. steel drums.

ALUM—Commercial, lump and ground—packed in bags.

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Cincinnati 2, Ohio—Main 3168
Detroit 26, Mich.—Woodward 1-8051
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Pennsalt Chemicals

Progressive Chemistry for over a Century

Isophorone—Lithium Salicylate

Isophorone, dms., c.l., works....lb. .24¼- —
l.c.l., works....lb. .24¾- —
tanks, works....lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .11¾- —
l.c.l., same basis....lb. .12½- —
tanks, same basis....lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene)
Ether (see Ether, isopropyl).
Isopropylamine (see Mono-, Di-, or Tri-)
Isopropylphenol, dms., c.l., works lb. .46 - —
l.c.l., works....lb. .47 - —
tanks, works....lb. .45 - —
Isoquinoline, dms., works....lb. .63 - 1.25

J

Jaborandi leaves, bls....lb. .17 - .18
Jalap root, NF, bls....lb. .45 - .55
powd., bbls., bxs....lb. .50 - .60
Juniper berries, bgs....lb. .13 - .15
Tar, NF, dms....lb. .42 - .50

K

Kamala, powd., cns....lb. .75 - .80
Kava Kava root, bls....lb. .30 - .32
Kaolin (see also Clay, China).
NF, powd., fib. dms....lb. .08 - .16½
colloidal, fib. dms....lb. .15 - .15½
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks, gal. .0925- —
California, 40-43 s.g., w.w., tanks, gal. .120 - .130
Gulf ports, 41-43 s.g., w.w., tanks, gal. .0970- .1015
N. Y. Harbor, 43-44 s.g., w.w., tanks....gal. .1075- —
Okla.-Tex., 41-43 s.g., w.w., tanks....gal. .0875- .095
Penn, Western, 45 s.g., w.w., tanks....gal. .1125- .1195
Kola nuts, bgs....lb. .08 - .09
Kyanite, imp., 60% alumina, low iron content, 10 mesh, bulk, whse....ton.95.00 -100.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

L

Lady's slipper root, bls....lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .35½- .40½
USP, anhydrous, dms., works lb. .33½- —
hydrous, dms., works....lb. .32 - —
Lard, cash, trcs., Chicago....lb. .08¾- —
Larkspur seed, bgs....lb. .20 - .25
Laurel berries, bgs....lb. .25 - .26
Leaves, Greek bls....lb. .10 - .10½
Portuguese, bls....lb. .10 - .10½
Turkish, bls....lb. .11½- .12
Yugoslavian, bls....lb. .09 - .09½
Lauryl chloride, dms., works, frt. equald....lb. .72 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls lb. .55 - .60
ordinary, bls....lb. .16 - .20
select, bls....lb. .90 - —
Lead acetate, white crystals, bbls. lb. .22 - —
gran., bbls....lb. .23 - —
powd., bbls....lb. .23 - —
NF, cryst., dms....lb. .32 - .33
gran., powd., dms....lb. .22 - .33
Arsenate, dealers, acid powder, frt. alld. on 96 lbs. or 3-lb. bgs. or larger, c.l., over....lb. .27½- —
l.c.l., frt. alld....lb. .28½- —
1-lb. bgs., c.l....lb. .42½- —
l.c.l....lb. .43½- —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld....lb. .14¾- —
l.c.l., works....lb. .15¾- —
Carbonate (see Lead, white).
Chloride, dms....lb. .45 - —
Iodide, NF, V. jars....lb. 3.82 - —
Linoleate, fused, 26.5%, dms lb. .32½- —
Metal, pigs, prime, N. Y....lb. .14 - —
St. Louis....lb. .1380- —
Metallic paste, dms., 20,000-40,000 lbs., works....lb. .34¼- —
10,000-20,000 lbs., same basis. lb. .34¾- —
2,000-10,000 lbs., same basis. lb. .35¼- —
200-2,000 lbs., same basis.lb. .35¾- —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l....lb. .1512- —
l.c.l....lb. .1610- —
Naphthenate, liquid, 16% Pb, dms., dlvd....lb. .17½- —
24% Pb, dms., dlvd....lb. .23¾- —
solid, 37% Pb, dms., dlvd....lb. .31 - —
Nitrate, bbls....lb. .22¼- —
Oleate, fused, bbls....lb. .29¾- —
Orthosilicate gel, 50% PbO, dms., works lb. .32¾- —
60% PbO, dms., works....lb. .31¾- —
Lead peroxide, powd., tech., bbls. lb. .45 - .47
Phthalate, dibasic, dms., works. lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l. ship't point, frt. alld. lb. .16¾- —
l.c.l., same basis....lb. .17¾- —
97% Pb_3O_4, bbls., c.l., same basis....lb. .17 - —
l.c.l., same basis....lb. .18 - —
92% Pb_3O_4, bbls., c.l., same basis....lb. .17¼- —
l.c.l., same basis....lb. .18¼- —
Resinate, precip., dms., dlvd lb. .28½- —
Salicylate, normal, dms., works. lb. .46 - —
Stearate, dibasic, ton lots....lb. .54 - —
precip., bbls., c.l....lb. .39 - —
ton lots....lb. .40 - —
less ton lots....lb. .41 - —
Sulphate (see Lead blue; Lead white; basic sulphate)
Tallate, liquid, 16% Pb dms lb. .15¼- —
24% Pb, dms....lb. .20½- —
White, basic, carbonate, bgs., c.l., ship't point, frt. alld. lb. .1625- —
l.c.l., same basis....lb. .1725- —
basic silicate, bgs., c.l., ship't point, frt. alld. lb. .15 - .1825
l.c.l., same basis....lb. .16 - .1925
basic sulphate, bgs., c.l., ship't point, frt. alld. lb. .14¾- —
l.c.l., same basis....lb. .15¾- —
Lecithin, edible, tech., bleached dms. non-ret., c.l., works. lb. .15½- .16
l.c.l., same basis....lb. .16½- .19
unbleached, c.l., same basis lb. .14½- .15
l.c.l., same basis....lb. .16 - .18
Lemon peel, bls....lb. .20 - .26
Leucine dextro-laevo, dms., works. lb. 12.25 -15.00
Licorice extract, mass, cns....lb. .21¼- .40
powd., bbls....lb. .31¾- .50
Root, bls....lb. .05½- .10
5-lb. bundles, cs....lb. .50 - .55
powd., bbls....lb. .13 - .13¼
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼- .06¼
Lime, agricultural, bulk, works ton.14.50 - —
Chemical (quicklime) lump, pebble, bulk, Adams, Mass.ton.12.50 - —
Annville, Pa....ton.11.50 - —
Austin, Texas....ton. 9.50 - —
Bellefonte, Pa....ton.11.50 - —
Buffalo, N. Y....ton.14.00 - —
Cedar Hollow, Pa....ton.11.50 - —
Duluth, Minn....ton.12.50 - —
El Paso, Texas....ton.14.00 - —
Farnams, Mass....ton.14.00 - —
Gibsonburg, Ohio....ton.12.50 - —
Hannibal, Mo....ton.10.00 - —
Keystone, Ala....ton.10.25 - —
Kimballton, Va....ton.10.25 - —
Knoxville, Tenn....ton.10.50 - —
Lee, Mass....ton.12.50 - —
Lewisburg, Ohio....ton.10.00 - —
Limedale, Ark....ton.10.00 - —
Los Angeles, Cal....ton.25.10 -26.84
Marble Cliff, Ohio....ton.10.00 - —
Martinsburg, W. Va....ton.11.00 - —
Mosher, Mo....ton.10.25 - —
Nelson, Ariz....ton.14.50 -23.65
Quincy, Ill....ton.10.00 -13.00
Reddick, Fla....ton.13.50 - —
Scotrock, Ala....ton.10.25 - —
Springfield, Mo....ton.12.25 - —
Winooski, Vt....ton.15.50 - —
Woodville, Ohio....ton.11.50 - —
York, Pa....ton.15.50 - —
Hydrated, paper bags, Adams, Mass ton.15.50 - —
Annville, Pa....ton.14.50 - —
Austin, Texas....ton.13.00 - —
Bellefonte, Pa....ton.14.50 - —
Buffalo, N. Y....ton.16.00 - —
Cedar Hollow, Pa....ton.14.50 - —
Chicago, Ill....ton.15.00 - —
Duluth, Minn....ton.14.00 - —
El Paso, Texas....ton.17.50 - —
Engle, W. Va....ton.14.50 - —
Farnams, Mass....ton.14.00 - —
Gibsonburg, Ohio....ton.16.50 - —
Hannibal, Mo....ton.12.00 - —
Keystone, Ala....ton.13.50 - —
Kimballton, Va....ton.13.50 - —
Knoxville, Tenn....ton.13.00 - —
Lee, Mass....ton.15.50 - —
Lewisburg, Ohio....ton.14.00 - —
Limedale, Ark....ton.12.00 - —
Marble Cliff, Ohio....ton.13.50 - —
McNeil, Tex....ton.13.00 - —
Meneminee, Mich....ton.14.00 - —
Mosher, Mo....ton.12.50 - —
North Tazewell, Va....ton.12.75 - —
Quincy, Ill....ton.10.00 -12.00
Reddick, Fla....ton.16.00 - —
Scotrock, Ala....ton.13.50 - —
Springfield, Mo....ton.12.25 - —
Winooski, Vt....ton.15.50 - —
Woodville, Ohio....ton.14.50 - —
York, Pa....ton.14.50 - —
Spray, paper bgs., Adams, Mass. ton.17.00 - —
Annville, Pa....ton.17.00 - —
Austin, Texas....ton.13.00 - —
Bellefonte, Pa....ton.17.50 - —
Carey, Ohio....ton.11.00 - —
Duluth, Minn....ton.15.00 - —
Engle, W. Va....ton.14.50 - —
Farnams, Mass....ton.14.00 - —
Gibsonburg, Ohio....ton.16.50 - —
Keystone, Ala....ton.13.50 - —
Kimballton, Va....ton.13.50 - —
Lee, Mass....ton.17.00 - —
Lewisburg, Ohio....ton.16.00 - —
Marble Cliff, Ohio....ton.16.00 - —
McNeil, Tex....ton.16.00 - —
Meneminee, Mich....ton.14.00 - —
Mosher, Mo....ton.12.50 - —
North Tazewell, Va....ton.12.75 - —
Reddick, Fla....ton.16.00 - —
Rockland, Me....ton.10.00 - —
Springfield, Mo....ton.12.25 - —
Scotrock, Ala....ton.13.50 - —
Winooski, Vt....ton.17.00 - —
Woodville, Ohio....ton.16.50 - —
York, Pa....ton.15.50 - —
Lime salts (see Calcium).
Lime-ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works....ton. 3.50 - 4.00
Linalool, ex bois de rose, dms..lb. 5.60 - 6.55
ex lignaloe wood, dms....lb. 6.75 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms..lb. 6.30 - 6.55
96-98%, dms....lb. 6.40 - 7.10
ex petitgrain, bots....lb. 4.60 - 5.05
Lindane, 25% formulation, cns., works..lb. 2.70 - —
dms., works....lb. 2.60 - —
99%, tech., dms., works....lb. 5.75 - 7.00
Linden flowers with leaves, bls..lb. .34 - .35
without leaves, bls....lb. .40 - .41
Linseed meal expeller, 36%, bulk, Midwest mills..ton.78.00 Nom.
extracted, 36%, same basis..ton.78.00 Nom.
Litharge, com'l, powd. bbls., c.l., ship't point, frt. alld..lb. .15¾- —
l.c.l., same basis....lb. .16¾- —
Lithium benzoate, dms....lb. 1.65 - 1.67
Bromide, NF, bbls., works, frt. equald..lb. 2.10 - 2.75
Carbonate, tech., dms....lb. .80 - 1.10
Chloride, cryst., dms....lb. .95 - 1.25
Citrate, NF, bbls., dms., kgs..lb. 1.05 - 1.40
Fluoride, bbls....lb. 1.85 - 2.00
Hydride, powd., dms., works..lb.12.00 -14.00
Hydroxide, monohydrate, dms..lb. .91 - 1.05
Salicylate, dms....lb. 1.60 - 1.70

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354 HARRISON STREET, PASSAIC, NEW JERSEY

Lithopone, ordinary, bgs., c.l., dlvd. lb. .07¼- —
l.c.l., dlvd. lb. .08¼- .08¼
titanated (high-strength), bgs., c.l., dlvd. lb. .10 - —
l.c.l., dlvd. lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.

Liverwort leaves, bls. lb. .65 - .68
Lobelia herb, bls. lb. .42 - .43
Leaves, NF. lb. .75 - .76
Lobeline sulphate, bots., works oz. 33.00 -34.00
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l. lb. .39 - —
liquid, No. 1, bbls., l.c.l. lb. .20 - —
No. 2, bbls., l.c.l. lb. .19 - —
No. 3, bbls., l.c.l. lb. .18½- —
solid, No. 1. lb. .35 - —
Lovage root, imported, bls. lb. .65 - .75
Lupulin, tins lb. 1.95 - 2.00
Lycopodium, cs. lb. 1.70 - 1.75
Lysine hydrochloride, dextro-laevo, bots. kilo. 145.00 -149.00

M

Mace, Siauw, No. 1, bls. lb. .98 - 1.00
West Indian, cs. lb. .85 - .86
broken, cs. lb. .70 - .72
Magnesia, calcined, tech., ctns. works lb. .32 - .34¼
synth., rubber grade, ctns., works lb. .31 - —
USP, light, ctns. lb. .34 - .36
heavy, bbls. lb. .36 - .38
Magnesite, chemical grade, bgs., c.l., works, frt. equald ton. 72.50 - —
dead-burnt, bulk, c.l., standard grain, Chewalah, Wash ton. 36.30 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .09½- —
l.c.l., frt. alld lb. .10½- —
bbls., c.l., frt. equald lb. .10¾- —
l.c.l., frt. alld lb. .11¾- —
kgs. c.l., frt. equald lb. .12 - —
l.c.l., frt. alld lb. .13 - —
USP, bgs., c.l., frt. equald lb. .11¼- —
l.c.l., frt. alld lb. .12¼- —
bbls., c.l., frt. equald lb. .11¾- —
l.c.l., frt. alld lb. .12¾- —
kgs., c.l., frt. equald lb. .13 - —
l.c.l., frt. alld lb. .14 - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.
Chloride, anhyd., lump, 95-98%, drums, c.l., works, frt. equald lb. .12¾- —
l.c.l., same basis lb. .14 - .15
powd., bbls., works ton. 50 00 - —
hydrous, flake, dms., l.c.l., works ton. 49.00 -51.00
Gluconate, dms., cns. lb. 1.30 - 1.37
Glycerophosphate, dms., works lb. 5.10 - 5.20
Hydroxide, NF, medicinals, bbls., dms., kgs lb. .26½- .30
Hypophosphite, dms. lb. 1.60 - —
Laurate, bbls. lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .24½- —
sticks, cs., works, frt. alld. on carlots lb. .42 - .44
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.03
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls, works lb. .12 - .14
Sulphate (see Epsom salt).
Stearate, ctns., cs. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.
Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .37 - —
l.c.l., dlvd. E. of Rockies lb. .38 - —
Prices on maleic anhydride W. of Rockies, 1½c. higher.
Malva flowers, black, bls. lb. .90 Nom.
blue, bls. lb. 1.65 - 2.00
Leaves, bls. lb. .35 - .38
Mandrake root, bls. lb. .29 - .30
Manganese acetate, bbls, dlvd. lb. .32½- —
Arsenate, bgs. lb. .16 - —
Borate, tech., bbls. lb. .24 - —
Carbonate, bbls., works lb. .21 - —
Chloride, anhyd., dms., works lb. .20 - .22
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton. 83.00 - —
paper-lined burlap bgs., works ton. 86.00 - —
dms., works ton. 88.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Gluconate, dms., cns lb. 1.86 - 1.93
Glycerophosphate, NF, fib. dms. lb. 4.70 - 4.80
Hydrate, bbls., dlvd lb. .33¼- —
Hypophosphite, NF, dms lb. 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb. .30½- —
solid, precip., 8.2% Mn., bbls lb. .33½- —
Metal, cs., dlvd. East lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb. .25 - —
Oleate, precip., bbls lb. .33½- —
Resinate, fused, 3½% Mn., dms lb. .21¾- —
precip., dms lb. .24½- —
Stearate, ctns., c.l. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton. 75.50 - —
l.c.l., dlvd., S. E. ton. 82.50 - —
feed grade, 75%, bgs., c.l., dlvd. S.E. ton. 87.50 - —
l.c.l., dlvd. S. E. ton. 94.50 - —
Tallate, 6%, dms. lb. .21¾- —
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton. 79.00 -80.00
So. American, 30% tannin, c.l., ex dock ton. 80.00 - —
Manna, flake, large, cs. lb. 1.25 - 1.30
small, cs. lb. .80 - .95
Mannitol, com'l, dms., works lb. .46 - .48
reagent, 50-lb. dms., works lb. .85 - —
Marjoram, Bohemian, bls. lb. .23 - .23½
Chilean, bls. lb. .20 - .20½
French, bls. lb. .29 - .29½
Peruvian, bls. lb. .22 Nom.
Matico leaves, bls. lb. .25 - .35
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb. lots, works lb. .33½- —
less 500 lbs., works lb. .38½- —
Menadione, USP, bots gram .06 - .06½
Menthol, natural, USP, Brazilian, cs lb. 5.45 - —
Japanese, cs lb. 7.00 - 7.25
synthetic, USP, racemic, cns. lb. 5.35 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .34 - .35
less ton lots, same basis lb. .36 - .37
Mercaptobenzothiazyl disulphide, bgs., fib. dms., ton lots, works, frt. alld lb. .42 - .42¼
less ton lots, same basis lb. .44 - .45½
Mercury, ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel).
Cyanide, NF VIII, powd., fib. dms. lb. 5.29 - —
Iodide, red, NF, fib. dms. lb. 6.22 - —
yellow, NF, fib. dms. lb. 6.47 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
tech. (see Red, mercury oxide).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms. lb. 4.64 - —
Mesityl oxide, dms., c.l., dlvd. lb. .13¼- .14¼
l.c.l., dlvd. lb. .14 - .15
tanks, dlvd. lb. .11½- .12½
Metaldehyde, dms., works lb. .95 - 1.25
Meta-aminophenol, distilled, dms., ton lots lb. 2.05 - —
less than ton lots lb. 2.50 - —
Metachloraniiin, dms., works lb. .80 - —
Metacresol, 98%, dms., c.l., works lb. .73½- —
l.c.l., works lb. .74½- —
Metanitroaniiin, dms., frt. alld. lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.54 - —
Metaphenylenediamine, bgs., frt. alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld. lb. .78 - —
l.c.l., same basis lb. .80 - —
tankcars, same basis lb. .76 - —
Metatolylenediamine, fib. dms., frt. alld lb. .94 1.00
Methanol, natural, denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l., frt alld gal. .79 - —
tanks, frt alld gal. .70 - —
Prices on natural methanol W. of Miss. 3c. higher.
Methanol, synthetic, Zone 1, dms., c.l., frt. alld. lb. .44 - .45¼
l.c.l., frt. alld. gal. .49 - .50½
tanks, frt. alld. gal. .32 - .33½
Zone 2, dms., c.l., frt. alld. gal. .49¼- —
l.c.l., ex whse. gal. .54 - —
tanks, frt. alld. gal. .35½- —
Synthetic methanol zones are:—Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of the U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib. dms., frt. alld. 50-lb. or more lb. 4.55 - —
feed grade, 98%, fib., dms., same basis lb. 3.00 - —
97%, fib. dms., same basis lb. 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret, dms., c.l., dlvd., zone 1 lb. .19½- —
l.c.l., same basis lb. .20 - —
hydrogenated non-ret, dms., c.l., dlvd., zone 1 lb. .20 - —
l.c.l., same basis lb. .20½- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.
Acetone, natural, dms., c.l., E. of Miss., frt. alld gal. .57 - —
l.c.l., same basis gal. .68 - —
tanks, same basis gal. .45 - —
Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.
Methyl acetone, synthetic, dms., c.l., dlvd. E. gal. .06½- —
l.c.l., dlvd. E. gal. .72½- —
tanks, dlvd. E. gal. .54½- —
Synthetic methyl acetone East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of those four.
Acrylate, dms., c.l., and truckload, works lb. .50 - —
less than truckload works lb. .50½- —
tanks, works lb. .49 - —
Alcohol (see Methanol).
Anthranilate, cns. lb. 2.35 - 2.40
extra, cns lb. 2.65 - 4.40
Benzoate, cns., dms lb. .53 - .59
Bromide, jobbers, cyls., various sizes, works lb. .47 - .61
Chloride, indust., cyl., works lb. .18 - —
tanks, multi-unit works lb. .14 - —
single-unit, works lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .39 - .43
other consumers or service men, cyls. dlvd lb. .496 - —
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Formate refd., dms. lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .08 - —
tanks, works lb. .07 - —
Lactate, dms., l.c.l., works lb. .33 - —

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Methyl Methacrylate—Nitrocellulose

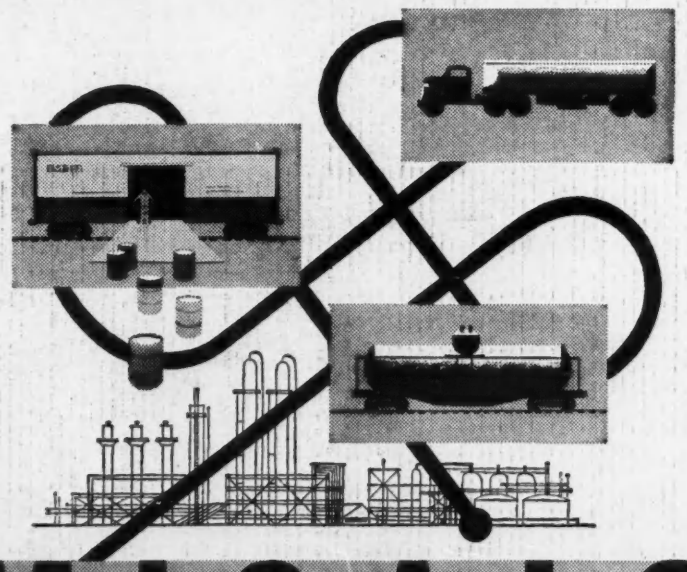
Methyl methacrylate, dms., c.l., and truckload, works	lb.	.36½-	—
less than truckload, works	lb.	.37	—
tanks, works	lb.	.35	—
Parahydroxybenzoate, USP, bots.	lb.	2.10	2.20
fib. dms.	lb.	1.90	2.00
Roseanilin chloride, NF, fib. dms.	lb.	5.40	—
Salicylate, USP, dms., 500 lbs	lb.	.50	—
cns., 80 lbs.	lb.	.55	—
Testosterone, USP, 100 gms	gm.	1.75	—
Methylal, refined, 95%, dms., c.l., works	lb.	.11	—
l.c.l., works	lb.	.12	—
tanks, works	lb.	.09	—
Methylamyl acetate, dms., c.l., dlvd. E	lb.	.14¾-	—
l.c.l., dlvd. E	lb.	.15½-	—
tanks, dlvd. E	lb.	.13	—
Ketone, dms., works	lb.	1.05	—
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works	lb.	.78	—
2,000 lbs., and more, same basis	lb.	.80	—
smaller lots, frt. alld. on 100 lbs.	lb.	.85	.97
standard vis. (15-400 cps.), 50-lb. bgs., c.l., alld.	lb.	.66	—
2,000 lbs. and more, same basis	lb.	.68	—
smaller lots, frt. alld. on 100 lbs	lb.	.72	.85
Methylene blue, 100-lb. lots, kgs., frt. adjusted	lb.	3.25	3.60
smaller lots, kgs., same basis	lb.	3.40	3.60
Chloride, industrial, dms., c.l., dlvd. E	lb.	.13½-	—
Methylethylketone, dms., c.l., dlvd.	lb.	.12¾-	.13¾
l.c.l., dlvd.	lb.	.13½-	.14½
tanks, dlvd.	lb.	.11	.12
Methylethylpyridin, dms., c.l., works.	lb.	.47½-	—
l.c.l. works	lb.	.48	—
tanks, works	lb.	.46	—
Methylheptin, carbonate, bots.	lb.	35.00	45.00
Methylionone, A, cns.	lb	6.55	6.80
D, cns.	lb.	7.50	9.55
prime, cns.	lb.	4.55	6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl).			
Ketone, dms., c.l., dlvd.	lb.	.14¾-	—
l.c.l., dlvd.	lb.	.15½-	—
tanks, dlvd.	lb.	.13	—
Methylnaphthyl, ketone, cans	lb.	3.00	3.75
Methylparaben (see Methyl parahydroxybenzoate).			
Methylpentanediol (see Hexyleneglycol).			
Methylphenylpyrazolone, 250-lb. dms., dlvd	lb.	1.60	1.70
less than 250 lbs., dms., dlvd	lb.	1.80	1.90
Methylthionine chloride (see Methylene blue).			
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works	lb.	.04¼-	—
roofing, 20 to 80 mesh, works	lb.	.03¾-	—
wet-grd., biotite, bgs., c.l., works, frt. alld., E	lb.	.05¾-	—
l.c.l., ex whse. or frt. alld. E	lb.	.06½-	—
extra fine, bgs., c.l., works, frt. alld., E	lb.	.05¾-	—
l.c.l., ex whse. or frt. alld. E	lb.	.06½-	—
paint or lacq., bgs., c.l., works, frt. alld., E	lb.	.07¼-	—
l.c.l., ex whse. or frt. alld. E	lb.	.08	—
Mica, wet-grd., rubber, bgs., c.l., works, frt. alld. E.	lb.	.07	—
l.c.l., ex whse. or frt. alld. E.	lb.	.07¾-	—
wallpaper, bgs., c.l., works, frt. alld. E.	lb.	.07¼-	—
l.c.l., ex whse. or frt. alld. E	lb.	.08	—
white, extra, fine, bgs., c.l., works, frt. alld. E	lb.	.07¼-	—
l.c.l., ex whse. or frt. alld. E.	lb.	.08	—
Mica, wet-grd., W. of Miss. R., W. of Rockies, 1c. higher.			
Milk powder, skimmed, roller, bbls., c.l.	lb.	.16	.18¾
spray, bbls., c.l.	lb.	.17	.19¾
whole, roller, bbls., c.l.	lb.	.34	.36
spray, bbls., c.l.	lb.	.35½-	—
Sugar, crude, bgs., c.l., works.	lb.	.18	—
edible, bgs., works, 30,000-lb. lots, works	lb.	.24	—
2,000-lb. lots, works	lb.	.24¾-	—
200-1,800-lb. lots, works	lb.	.25¼-	—
Edible milk sugar in fib. dms., 1c. higher.			
USP, fib. dms., 30,000-lb. lots, lots, works	lb.	.29	—
2,000-lb. lots, works	lb.	.29¾-	—
200-1,800-lb. lots, works	lb.	.30¼-	—
USP milk sugar in bgs., 1c lower.			
Mineral spirits (see Petroleum mineral spirits).			
Molasses, blackstrap, feed grade, tanks, New Orleans	gal.	.09	—
New York	gal.	.10½-	—
Molybdenum metal, 99% Mo. powd., kgs	lb.	3.00	Nom.
Trioxide, pure, kgs., works, basis Mo. content	lb.	1.35	—
technical, kgs., works, basis Mo. content	lb.	1.13	1.14
Monobutylamine, dms., c.l., E. of Rockies	lb.	.54¾-	—
l.c.l., same basis	lb.	.55¾-	—
tanks, same basis	lb.	.53	—
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E.	lb.	.10¼-	.11¼
l.c.l., same basis	lb.	.11½-	.12½
tanks, same basis	lb.	.09	.10
Monochlorobenzene prices in the West, 1¾c. higher.			
Monoethanolamine, dms., c.l., dlvd. E.	lb.	.29¾-	—
l.c.l., same basis	lb.	.30¾-	—
tanks, same basis	lb.	.28	—
Monoethylnaphthylamine, dms., works	lb.	.88	—
Monoethylamine, 70% contained amine, dms., c.l., dlvd	lb.	.32	—
l.c.l., dlvd	lb.	.33	—
tanks, dlvd	lb.	.30¼-	—
Monoethylaniline, dms., c.l., frt. alld.	lb.	.51	.57
l.c.l., frt. alld	lb.	.52	.58
tanks, frt. alld	lb.	.50	.56
Monoethylorthotoluidin, bbls	lb.	.80	—
Monoisopropylamine, dms., c.l., frt. ald. E. of Rockies	lb.	.29½-	—
l.c.l., same basis	lb.	.30½-	—
tanks, same basis	lb.	.28½-	—
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%	lb.	.35	—
l.c.l., same basis	lb.	.35½-	.36
tanks, same basis	lb.	.31	—
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).			
Glutamate (see Sodium glutamate, monobasic.			
Phosphate (see Sodium phosphate monobasic).			
Mono-tertiary-butylmetacresol, dms., c.l., works	lb.	.49	—
l.c.l., works	lb.	.50	—
tanks, works	lb.	48	—
Morphine, cns.	oz.	12.40	-12.60
Acetate, anhyd., cns.	oz	9.95	-10.00
Hydrobromide, cns	oz	9.90	9.95
Hydrochloride, NF, cns.	oz.	9.90	9.95
Sulphate USP, cns	oz.	9.90	-10.05
Morpholine, dms., c.l., dlvd. E	lb.	.60¾-	—
l.c.l., dlvd. E.	lb.	.61¾-	—
tanks, dlvd. E	lb.	.59	—
Mullein flowers, cs.	lb.	2.00	2.05
Leaves, bls.	lb.	.21	.25
Musk, natural, Tonquin grains, bots.	oz.	40.00	-55.00
synthetic, ambrette, 100-lb. lots, fib. dms	lb.	5.35	—
25-lb. lots, cns.	lb.	5.40	—
5-lb. lots, cns.	lb.	5.55	—
ketone, 100-lb. lots, fib. dms.	lb.	5.30	—
25-lb. lots, cns.	lb.	5.35	—
5-lb. lots, cns.	lb.	5.50	—
xylol, 100-lb. lots, fib. dms.	lb.	1.50	—
25-lb. lots, cns.	lb.	1.55	—
Musk root, bls.	lb.	1.60	1.65
5-lb. lots, cns.	lb.	1.70	—
Mustard seed, Calif. brown bgs., f.o.b. source	lb.	.12	—
Danish, yellow, bgs.	lb.	.11	.13½
Dutch, yellow, bgs.	lb.	.10½-	.11
English, yellow, bgs.	lb.	.12½-	.14
German, yellow, bgs.	lb.	.10½	Nom.
Japanese yellow, bgs.	lb.	.10	.10¼
Montana, brown, bgs., f.o.b. source, Sept.-Oct. shipment	lb.	.08	—
oriental, bgs., source, Sept.-Oct. shipment	lb.	.05½-	—
yellow, bgs., source, Sept.-Oct. shipment	lb.	.09¼-	—
Myrobalans, J1, ord. bgs., ex dock.	ton.	47.00	—
assorted, ex dock	ton.	48.50	—
crushed, bgs., ex dock	ton.	65.00	-66.00
J2, bgs., ex dock	ton.	No prices.	

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).			
Solvent (see S).			
Naphthalene, dom., crude, 74°, tanks, frt. equald.	lb.	.0625-	—
78°, dms., c.l., same basis	lb.	.0765-	—
l.c.l., same basis	lb.	.0790-	—
tanks, same basis	lb.	.0675-	—
refined, industrial, bbls., c.l., frt. equald.	lb.	.11¾-	—
bgs., c.l., same basis	lb.	.11¼-	—
tanks, same basis	lb.	.10¾-	—
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis.	lb.	.14½-	—
cs., 50 lbs., c.l., same basis	lb.	.14¾-	—
1-lb. pkgs., c.l., same basis	lb.	.17	—
imported, crude, 78° large lots.	lb.	.04	—
Neocinchophen, USP, dms., frt. adjusted	lb.	7.00	8.00
Neomycin, fib. dms., 100-kilo lots, basis activity	gm.	.60	—
1-kilo lots	gm.	1.20	—
Nepheline syenite, glass, 24 mesh, bulk, works	ton.	14.25	—
pottery, 200 mesh, bulk, works, N.Y.	ton.	18.25	—
Nepheline syenite in bgs., $3 per ton higher than bulk.			
Nerolin, cns.	lb.	2.25	2.65
Niacin (see Acid nicotinic).			
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd.	lb.	.60	.60½
Carbonate, bbls., dlvd.	lb.	.66¼-	—
Chloride, bbls., dlvd.	lb.	.34½-	—
Cyanide, bots., dms.	lb.	2.75	4.50
Formate, bbls., ton lots, frt. alld.	lb.	.58½-	.59½
Metal, electro cathodes, cs., works.	lb.	.56½-	—
Nitrate, bbls., works	lb.	.33½-	—
Oxide, black, bbls.	lb.	.63¼-	—
Sulphate, bgs., c.l., dlvd.	lb.	.26¼-	—
l.c.l., dlvd.	lb.	.26¾-	—
Nicotinamide, USP, dms., frt. adjusted	kilo.	12.00	-12.30
Hydrochloride, dms., frt. adjusted	kilo.	11.50	-11.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld. over 70 lbs.	dm.	49.40	—
10-lb. tins, dealers, frt. alld. on cases of 6	tin.	10.85	—
Niger seed, bgs. afloat.	lb.	.11	.11½
Nikethamide, cbys.	lb.	7.50	8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld.	lb.	.10½-	.11¼
l.c.l., frt. alld.	lb.	.11½-	.12½
tanks, frt. alld.	lb.	.09½-	.10½
Nitrocellulose, ester-solubie, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works.	lb.	.33	—
l.c.l., same basis	lb.	.34	.36
18-25 cps., bbls., c.l.	lb.	.35	—
l.c.l., same basis	lb.	.36	.38
250-400, 600-1,000 secs., bbls., same basis	lb.	.42	—
l.c.l., same basis	lb.	.43	.45
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis.	lb.	.45	—
l.c.l., same basis	lb.	.46	.48
5-6, 40-60 secs., bbls., c.l., same basis	lb.	.44	—
l.c.l., same basis	lb.	.45	.47

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

REICHHOLD



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PHTHALIC ANHYDRIDE,
SODIUM SULFATE,
SODIUM SULFITE,
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Nitroethane, dms., dlvd. E. of Rockies, lb. .25 - —
Nitrogen solution, tanks, works, 37-40.5% N. ton. 120.00 - —
Nitrogenous process tankage, bulk, works unit-ton. 5.00 Nom.
Sewage sludge, bulk, works unit-ton. 3.75 - .50
Nitromethane, dms., f.c.l., dlvd. E. of Rockies lb. .25 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼- —
2, dms., dlvd. E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works lb. .33¾- —
tanks, works lb. .32¼- —
Nutgalls, Aleppo, bgs lb. .36 - —
Chinese, bgs lb. .32 - —
Istrian, bgs lb. .31 - —
Nutmeg, East Indian, whole, cs. lb. .33 - .34
shrivels, bgs lb. .32 - .33
West Indian, bgs lb. .30 - .31
Nux vomica, bls lb. .10 - .12
powdered, bbls., bxs lb. .13 - .14

O

Octane, 100°-140°C., industrial grade, group 3, dms., c.l. gal. .19 - —
l.c.l. gal. .21 - .60
tanks gal. .15½- —
90°C., b.r., Bayonne, N. J., tanks, gal. .18 - —
Octanol, normal, tech., dms., c.l., dlvd lb. .419 - —
t.c.l., dlvd. lb. .439 - —
tanks, dlvd lb. .394 - —
Octyl methacrylate, normal, dms., less than truckload, works. lb. .83 - —
Octylphenol, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, works lb. .25¼- —
Oil, abies siberica, cns lb. 2.50 - 3.10
Almond, artificial, bitter (see Benzaldehyde).
natural, bitter, F.P.A., bots lb. 2.75 - 4.75
NF, bots. lb. 2.85 - 3.75
sweet, USP, dms., cns lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.75 - 2.00
Angelica root, bots lb. 80.00 - 115.00
seed, bots lb. 50.00 - 95.00
Anilin (see A).
Anise, USP, Chinese, dms lb. 2.25 - 2.50
Apricot, kernel, USP, dms lb. .34 - .60
Avocado, cns., dms lb. No prices.
Babassu, crude, tanks lb. No stocks
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.55 - 1.90
55-60%, cns lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms lb. 1.50 - 2.25
Bergamot, artif., cns lb. 2.90 - 3.00
natural, NF, Italian, cns lb. 13.50 - 14.75
Birchtar, crude, cns lb. 1.70 - 2.00
rectified, NF, cns lb. 2.85 - —
Bois de rose, Brazil, dms lb. 3.85 - 4.60
Mexican (see Oil, tignaloe wood).
Bone, dms. works lb. 65 - 70
Cajeput, redist, USP, cns lb. 2.20 - 3.00
tech., cns lb. 1.85 - 2.85
Calamus, cns lb. 10.00 - 20.00
Camphor sassafrassy, dms lb. 26 - 42
white, dms lb. 26 - .50
Cananga, native, cns lb. 11.00 - 11.50
rectified, cns lb. 11.00 - 14.50
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns lb. 3.75 - 4.25
Cardamom, NF, bots lb. 45.00 - 65.00
Cassia, USP, cns., dms lb. 5.25 - 6.50
Castor, blown, dms., c.l. lb. .2900- —
l.c.l. lb. .2950- —
dehydrated, bodied, dms., c.l., lb. .3210- —
l.c.l. lb. .3260- —
tanks lb. .3110- —
unbodied, dms., c.l. lb. .3060- —
l.c.l. lb. .3110- —
tanks lb. .2960- —
hydrogenated, bgs lb. .3425- .3475
No. 1, Brazilian, tanks lb. .25 - .25¼
USP, dms., c.l. lb. .2700- —
l.c.l. lb. .2750- —
tanks lb. .2600- —
refined and deodorized, dms., c.l. lb. .2850- —
l.c.l. lb. .2900- —
tanks lb. .2750- —
No. 3, tech., dms., c.l. lb. .2675- —
l.c.l. lb. .2725- —
tanks lb. .2575- —
sulphonated, 50% (48% fat), dms., l.c.l lb. .16½- .17
75% (60-62% fat), dms., l.c.l. lb. .23 - .23½
Cedarleaf, cns., dms lb. 2.25 - 2.80
Cedarwood, cns., dms lb. .50 - .70
Celeryseed, bots lb 16.50 - 21.00
Chamomile, blue, Hungarian, bots. lb. 250.00 - 260.00
Chaulmoogra, NF, cns., dms lb 55 70
Chinawood (see Oil, tung)
Cinnamon bark, USP, bots lb. 25.00 - 60.00
leaf, Ceylon, bots lb. 2.00 - 3.25
Citronella, Ceylon, cns., dms lb. .55 - .90
Java, true, cns lb. 1.10 - 1.90
Java type, cns lb. .45 - .85
Clove, USP, from buds, cns., dms. lb. 7.50 - 8.75
Coconut, crude, tanks, New York. lb. .16¾- —
Pac. Coast lb. .15½- —
refined, Cochin type, tax incl., ret. oms., l.c.l. lb. .23½- —
deodorized, tax incl., non-ret. dms., c.l. lb. .24¾- —
Cod, Newfoundland, dms lb. .10 - .10½
Codliver, USP, dms gal. 1.55 - 1.65
Copaiba, cns lb. 2.00 - 2.50
Coriander, USP, bots lb. 22.00 - 28.50
Corn, crude, tanks, works lb. .14 - —
foots (soapstock), acid, 95%, tanks, N. Y lb. .04¼- —
raw, 50%, tanks, same basis. lb. .02 - —
refined, dms. lb. .19¾- .19¾
tanks lb. .17¼- —
Costus, bots. oz. 14.00 - 25.00
Cottonseed, crude, tanks, Southeast lb. .13¾- —
Valley lb. .13¾- —
Texas lb. .13½- —
foots (soapstock), acid, 95%, tanks, N. Y lb. .03 - —
raw 50%, tanks, same basis. lb. .01¼- —
salad, dms lb. .19 - .19½
tanks lb. .17½- —
Creosote (see Creosote, coaltar).
Croton, cns lb. 4.30 - 5.50
Crude (see Petroleum, crude).
Cubeb, cns lb. 4.50 - 6.75
Cumin, bots. lb. 4.90 - 6.00
Cypress, bots lb No stocks
Degras (see D)
Dillseed, India bots lb. 3.55 - —
Dillweed, domestic, bots., dms lb. 3.65 - 4.25
Dip (see D)
Erigeron, cns lb. 6.50 - 7.50
Eucalyptus, NF, rectified, 80-85%, dms. lb. 1.00 - 1.35
70-75%, dms lb. .85 - 1.25
Fennel, sweet, USP, cns lb. 2.30 - 3.00
Fir, Canada, cns lb. 2.65 - 2.90
Fish, refined, alkali, dms lb. .1360- —
kettle-bodied, dms lb. .1560- —
light-pressed, dms lb. .1210- —
tanks lb. —

Oil, fishliver, crude, for feeds for concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .12 - .13¼
10,000 to 20,000 A units per gm., dms 1,000,000 units. .12 - .12½
25,000 to 35,000 A units per gm., dms 1,000,000 units. .12 - .12½
40,000 to 55,000 A units per gm., dms 1,000,000 units. .12 - .13
prime, nat. or conc., 100,000 A units per gm., dms. 1,000,000 units. .13 - —
200,000 A units per gm., dms. 1,000,000 units. .15 - —
300,000 A units per gm., dms. 1,000,000 units. .15 - —
400,000 A units per gm., dms. 1,000,000 units. .15 - —
500,000 A units per gm., dms. 1,000,000 units. .15 - —

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots oz. 7.25 - 8.50
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns lb. 12.25 - 20.00
Bourbon, cns lb. 12.00 - 17.50
Turkish (see Oil, palmarosa).
Ginger, dist., bots lb. 14.50 - 16.50
Grapefruit, dms lb. 2.75 - 3.25
Grease, No. 1, dms lb. .10½- .11¼
extra, winter, strained, dms lb. .11½- .12
prime, burning, dms lb. .12½- .13
Guaiacwood, cns lb. 1.60 - 2.10
Hemlock, cns lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb 2.50 - 2.75
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .65 - 1.00

Oil, lard (see Oil, grease).
Laurel, dms., cns lb. 9.75 - 12.50
Lavandin, dms., cns lb. 3.00 - 3.25
Lavender, flower, USP, French, 30-32% ester, cns lb. 3.10 - 4.75
38-40% ester, cns lb. 4.85 - 6.75
40-42% ester, cns lb. 6.00 - 6.75
Spike, Spanish, cns lb 1.50 - 2.00
Lemon, USP, Calif., cns., dms lb. 5.85 - 6.30
Messina, cns lb. 5.85 - 9.50
Lemongrass, cns., dms lb. .75 - 1.40
Lignaloe wood, Mexican, cns lb. 3.75 - 4.50
Lime, distilled, Mexican, cns lb. 6.50 - 7.85
West Indian, cns lb. 7.40 - 8.25
expressed, West Indian, cns lb. 7.25 - 9.25
terpeneless, bots lb 45.00 - 65.00
Linseed, raw, dms., c.l., N. Y. lb. .1790- —
l.c.l. lb. .1840- .1890
tankcars, f.o.b. Minneapolis lb. .1500- —
New York lb. .1625- —
tankwagon, N. Y lb. .1655- —
Boiled, linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms lb. 3.50 - 4.25
Mandarin, Floridian, dms lb 4.00 - 5.00
Italian, cns lb. 6.50 - 12.00
Menhaden, crude, tanks, Balto lb. .07½- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, expressed, dms lb. .19¼- .19¾
synthetic, cns., dms lb. 1.60 - 1.85
Neatsfoot, 15°, dms lb. .31 - .33
20°, dms. lb. .30 - .32
30°, dms. lb. .28 - .30
Neroli, NF, French, bots lb. 216.00 - 275.00
petale, bots lb. 40.00 - 150.00

Nitroethane—Oil, Pimento Leaf

Oil, nutmeg, USP dist., East Indian, cns., dms lb. 3.35 - 4.05
West Indian, cns., dms lb. 3.25 - 3.50
Ocotea cymbarum, dms lb. .58 - 1.00
Oiticica, liquid, dms lb. .23½- .24½
tankcar lb. .22 - .22½
Oleo, extra, dms lb. .12½- .13
Olibanum bots lb. 5.50 - 7.65
extra fine bots lb 9.00 —
Olive, commercial, dms gal. 2.05 - —
edible, dms., duty paid gal. 2.35 - 2.50
foots, dms lb. .15 - 15½
Orange, sweet, dist., cns lb. .70 - .85
expressed, USP Brazilian cns., dms lb No stocks.
Calif., cns lb. 1.00 - 1.75
Florida, cns., dms lb. 1.00 - 1.75
Messina, cns lb 4.00 - 5.85
West Indian, cns lb 2.75 - 3.35
sesquiterpeneless, bots lb. 150.00 - 190.00
Origanum, Spanish, cns lb 2.15 - 2.75
Palm, clarif., dms lb. No Stocks.
tankcars lb. No Stocks.
Palmarosa, cns lb. 7.35 - 8.40
Paraffin pale, 100-110 vis., at 100°F tanks, East Coast refinery gal .14 —
Patchouli, dms lb. 7.25 - 8.75
Peach kernel, USP (see Oil, apricot kernel)
Peanut, crude, tanks, Southeast. lb. .20 - —
refined, dms lb. .25 - .25½
tanks lb. .23½- —
Pennyroyal, USP, imported, cns lb. 2.00 - 2.40
Peppermint, natural, dms lb. 5.60 - 7.50
redist., USP, dms lb. 5.90 - 8.25
Persic, USP (see Oil, apricot kernel)
Perilla, crude, dms lb No stocks
Petitgrain, Paraguay, cns., dms lb. 2.50 - 3.10
Pimento berry, NF, dms lb. 4.65 - 5.75
leaf, cns lb. 2.35 - 3.00

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PRODUCING PLANT:
The Exchange Orange Products Co., Ontario, Calif.

Oil, Pine—Paraformaldehyde, Technical

Oil, pine, dest., dist., dms., extra, c.l., works gal. 75½- —
i.c.l. gal. 76½ —
whse. gal. 95½ —
steam dist. dms., ex whse., N Y C lb. .127 .128
Pineneedle, Siberian (see Oil, abies siberica).
Putty, petroleum dms., c.l., dlvd. lb. .11 - —
i.c.l. same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .16½- —
Red (see Acid, oleic).
Rice, bran, clarif., dms lb. .16 - —
crude, tanks, dlvd. E lb. .12 - —
Rose, natural, Bulgarian, bots oz. 55.00 -62.25
Rosemary, Spanish, tech., cns., dms lb .60 .90
USP, cns., dms lb .80 1.10
Rue, bots lb. 2.50 - 2.65
Safflower, dms., c.l., works lb. .16 - —
tanks, works lb .15 - —
Sage, clary, bots lb. 20.00 -23.00
Dalmatian, cns lb. 8.25 - 9.75
Spanish, cns lb. .90 - 1.25
Sandalwood, NF, cns lb. 10.50 -11.80
Sardine, crude, tanks, Pac. coast. lb. No stocks.
Sassafras, artificial, dms lb. .55 - .70
natural Brazilian (See Oil, ocotea cymbarum)
domestic, USP, cns., dms lb. 1.90 - 2.25
Savin, cns lb. 2.75 - 3.00
Savory, cns lb. No stocks.
Sesame, refd., dms lb. .35½- .37
Shingle stain, tar distillate, dms., c.l., works lb. .31 - —
i.c.l. works lb. .33 - —
tanks, works lb. .21 - —
Snakeroot, Canada, cns lb. 31.00 -35.00

Oil, soybean, crude, tanks, mills lb. .11¼- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .04¾- —
raw, 50%, tanks, N. Y. lb. .02 - —
refined, alkali, dms., c.l. lb. .15 - —
i.c.l. lb. .15½- .15¾
tanks lb. .13½- —
clarified, dms., c.l. lb. .14½- —
i.c.l. lb. .15 - .15¼
tanks lb. .12⅞- —
salad, dms lb. .15½- .15¾
tanks lb. .13⅞- .14
Spearmint, USP, dms lb. 7.75 - 9.00
Sperm, bleached, winter, 45°, dms lb. .1630- .1660
tankcars lb. .1520- —
natural, winter, 45°, dms lb. .1510- .1560
tankcars lb. .1400- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb 4.95 8.00
Southern, cns lb. 2.00 - 3.25
Tall, crude, tanks, works lb. .02¼- .02½
refined, dms., c.l., works lb. .06¼- .07¼
i.c.l., works lb. .06½- .07½
tanks, works lb. .05 - .06
Tallow, acidless, dms lb. .09¾- .10¼
Tansy, dms lb. 8.25 - 9.00
Tar, pine, com'l, dms., extra, c.l., works lb. .0488- —
i.c.l., works lb. .0545- —
whse lb. .0655- —
tanks, works lb. .041 - —
rectified, N.F. i.c.l., dms. ex. tra, works, South gal. .67 - —
whse N Y C. gal. .77 - —
Tar acid (see T).
Theobroma (see Cocoa butter).
Thyme, NF red, cns., dms lb. 1.90 - 3.75
white, cns lb 2.25 - 4.00

Oil, tung, dom., tanks, mills lb. No stocks.
imported, dms., c.l. lb. .39 - —
i.c.l. lb. .39½- .40
tanks lb. .37½- —
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms lb. .25 - .45
Vetiver, Bourbon, cns lb. 22.00 -28.50
Haitian, cns lb. 17.50 -26.00
Java, cns lb. 35.00 - —
Wheat germ, p-gal. dms gal. 10.00 -13.00
White mineral, tech., 50-65 vis., dms., c.l. gal. .51½- .54¼
i.c.l. gal. .56½- .57½
65-75 vis., dms gal. .52½- .55½
i.c.l. gal. .57½- .58½
NF, 80-90 vis., dms., c.l. gal. .53½- .56¼
i.c.l. gal. .58½- .59½
125-135 vis., dms., c.l. gal. .59½- .62½
i.c.l. gal. .64½- .65½
145-155 vis., dms., c.l. gal. .66 - .68½
i.c.l. gal. .71 - .71½
175-185 vis., dms., c.l. gal. .69½- .73
i.c.l. gal. .74½- .76
USP, 200-210 vis., dms., c.l. gal. .72½- .75
i.c.l. gal. .77½- .78
345-355 vis., dms., c.l. gal. .77 - .80
i.c.l. gal. .83 - .85
Wintergreen, USP, nat., Northern, cns. lb. 5.75 -14.50
Southern, cns lb. 3.25 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. lb. 8.00 - 9.25
Wormwood, cns lb. 5.55 - 6.85
Ylang-ylang, Bourbon, bots lb. 18.00 -30.00
extra, bots lb. 25.00 -40.00N
Madagascar bots lb. No stocks
Oleostearin, bbls lb. .08¾- .09¼
Olivine aggregate, c.l., mines ton. 7.00 9.50
crushed 8 mesh, bulk, c.l. works ton. 10.00 - —
paper, bgs, c.l., works ton. 12.00 - —

Opium, USP, cns lb. 19.20 -19.45
gran., USP, cns lb. 21.65 -21.90
powd., USP, cns lb. 21.65 -21.90
Orange, cadmium, lithopone, bbls., frt. alld. E. of Rockies lb. 1.52 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —
Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd Pac. Coast, for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.
Dinitroanilin toner lb. 1.30 - —
Mineral, American, bbls., i.c.l., ship't point, frt. alld lb. .2010- —
Molybdated, bbls lb. .44 - —
Orthonitroanilin toner, kgs lb. 1.15 - —
Persian, bbls lb. .65 - —
Orange flowers, bls lb. .55 - .56
Peel, bitter, Haitian, bls lb. .12 - .14
sweet, bls lb. .14 - .16
Oregano, Italian, bgs lb. .17 - .17½
Mexican, bgs lb. .15 - .19
Portuguese, bgs lb. .15½- .18½
Orris root, Florentine, bls lb. .20 - .22
powdered, bbls., bxs lb. .25 - .26
Verona, bls lb. .14 - .15
powdered, bbls., bxs lb. .19 - .24
Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
i.c.l., same basis lb. .33 - —
tanks, same basis lb. .37 - —
Orthoanisidin bbls lb. .68 - —
Orthochloroanilin, dms., c.l. lb. .65 - .70
i.c.l. lb. .67 - .72
Orthochlorobenzaldehyde, dms., works lb. 1.18 - —
Orthochloroparanitroanilin dms., dlvd lb. .86 - —
Orthochlorophenol dms., c.l., frt. equald lb. .34½- —
i.c.l., same basis lb. .35½- —
Orthocresol, pure, 30° C, non-ret., dms., c.l. frt. equald lb. .198 - —
i.c.l., same basis lb. .201 - —
ret. dms., c.l., same basis lb. .195 - —
i.c.l., same basis lb. .20 - —
29° C. non-ret. dms., c.l., same basis lb. .188 - —
i.c.l., same basis lb. .191 - —
ret dms., c.l., same basis lb. .185 - —
i.c.l., same basis lb. .19 - —
24-29° C. non-ret. dms., c.l., same basis lb. .153 - —
i.c.l., same basis lb. .156 - —
tanks, same basis lb. .140 - —
Orthodichlorobenzene, dms. c.l., works, frt. alld. E. of Rockies lb. .11¼- .13¼
i.c.l., same basis lb. .12¼- .14¼
tanks, same basis lb. .09¾- .11¾
Orthoisopropyl N phenylcarbamate (see IPC).
Orthonitroanilin, dms lb. .50 .56
Orthonitrochlorobenzene, dms lb. .20 .21
Orthonitrobiphenyl tech., dms., c.l., works lb. .14½- —
i.c.l. works lb. .15 - —
tanks, works lb. .13 - —
Orthonitroparachlorophenol, cns lb. .75 - —
Orthonitrophenol, bbls, works lb. .94 - —
Orthonitrotoluene, dms., c.l., frt. alld. lb. .10 - —
i.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
Orthophenetidin dms., works lb. 1.00 - —
Orthophenylphenol, fib. dms., works, lb. .20 .44
Ortho-tertiary-amylphenol, dms., c.l., works lb. .43¾- —
i.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
Orthotoluidin, dms., c.l., works lb. .23 - —
i.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
Osage orange, crystals, No. 1, bbls., i.c.l lb. .40 - —
extract, liquid, No. 1, bbls., i.c.l lb. .19 - —
Orthotolidin (see Tolidine Base).
Ouabaine, USP bots gram. 3.00 - 4.00
Ox gall, dried, gran. or powd., dms., 5 lbs. or more lb. 4.35 - —
Oxyquinolin sulphate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works lb. 5.28 - 5.38

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Pancreas substance, assay 1:75 bots. lb. 5.50 - 6.00
Pancreatin, USP bots lb. 2.50 - 3.00
Panthenol, bots., works, frt. adjust. kilo. 90.00 - —
Papain, powd., African, dms lb. 7.00 - 7.25
Ceylon, dms lb. 5.75 - 6.00
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulphate, cns oz. 7.10 - 7.35
Para-anisidin, dms., works lb. .88 - —
Paprika, Algerian, bgs lb. .27 - .28
Czech, bgs lb. .28½- .30
Moroccan, bgs. lb. .24 - .25
Spanish, bgs lb. .41 - .44
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted lb. 17.50 -21.00
Para-aminophenol, dms., frt. alld lb. .97 - .98
Parachloroanilin, dms., frt. alld., E. of Miss lb. .75 - —
Parachlorobenzaldehyde, dms. works, lb. 1.34 - 1.37
Parachloro-orthonitroanilin, dms., frt. alld lb. .73 - .82
Parachlorophenol, dms., c.l., frt. equald lb. .34½- —
i.c.l., same basis lb. .35½- —
Paracresol, 98%, dms., c.l., dlvd. lb. .49 - —
i.c.l., dlvd. lb. .51 - —
Methylether, cns lb. 2.15 - 2.50
Paracymene, dms., 50-gal. lots or more, works gal. 2.50 - —
smaller lots gal. 3.00 - —
Paradibromobenzene, bgs., 500-lb. lots. lb. .55 - —
Paradichlorobenzene, dms., c.l., works lb. .14½- —
i.c.l., same basis lb. .17 - —
Paraffin, crude, scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .055 - —
fully refined, 122-124 ASTM, loose, c.l., rfy lb. .0745- —
125°-127°F, ASTM, loose, c.l., ref'y lb. .0745- —
130°-132°F, ASTM, loose, c.l., ref'y lb. .0755- —
132°-134°F, ASTM, loose, c.l., ref'y lb. .0755- —
135°-137°F, ASTM, loose, c.l., ref'y lb. .0755- —
Prices for paraffin in bags and ctns., c.l., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.
Paraformaldehyde, tech., 91%, powd., bgs., c.l., frt. alld. lb. .15½- —
i.c.l., frt. alld lb. .17 - —
flake, bgs., c.l., frt. alld lb. .12 - —
i.c.l., frt. alld lb. .13½- —

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Raw Material Company
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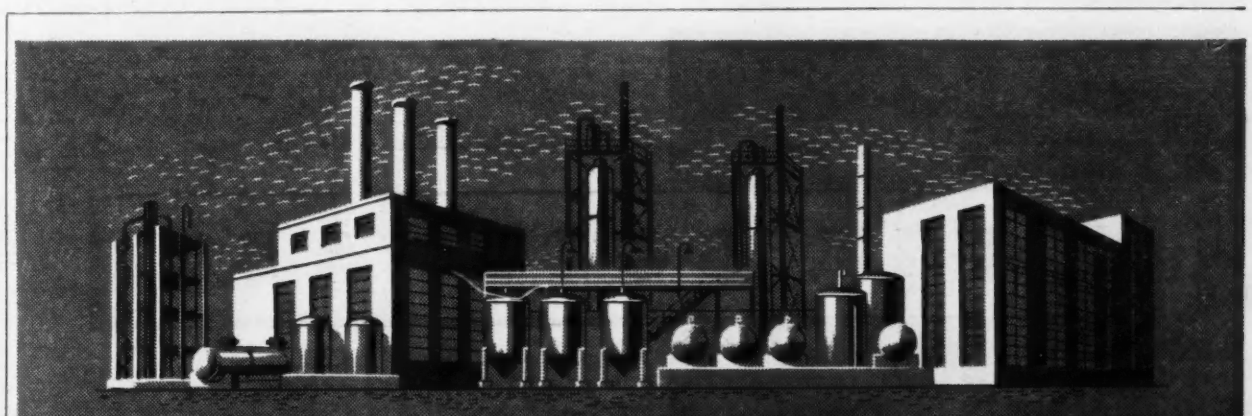
CINCINNATI, OHIO
Deeks & Miller, Inc.
CLEVELAND, OHIO
The Donald McKay Smith Company
DALLAS, TEXAS
W. W. Richerson Co.
DETROIT, MICHIGAN
Geo. E. Moser & Son, Inc.
HOUSTON, TEXAS
Texas Solvent & Chemical Co.
LOS ANGELES, CALIFORNIA
California Flaxseed Products Company
LOUISVILLE, KENTUCKY
B. H. Boyet and Company
Deeks and Miller Company
MINNEAPOLIS, MINNESOTA
Horton-Earl Company
MONTREAL, QUEBEC, CANADA
B. & S. H. Thompson and Company, Reg'd.
NEW ORLEANS, LOUISIANA
Russell Chemical Company
NEW YORK CITY, N. Y.
Garrigues, Stewart and Davies, Inc.
PHILADELPHIA, PENNSYLVANIA
Baker Industrial Oil Company
PITTSBURGH, PENNSYLVANIA
Emmett D. Griffin, Jr.
PORTLAND, OREGON
W. Ronald Benson, Inc.
SEATTLE, WASHINGTON
W. Ronald Benson, Inc.
ST. LOUIS, MISSOURI
Ivan T. Bauman Co.
TORONTO, ONTARIO, CANADA
B. & S. H. Thompson Company

Paraformaldehyde, USP X, fib. dms., c.l. lb. .198 - —
10,000-lb lots lb. .198 - —
1,000-lb. lots lb. .198 - —
smaller lots lb. 208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .1335- .1650
l.c.l., works lb. .1485- .1750
tanks, works lb. .1200- .1500
Paranitroanilin, dms., c.l., works, frt. alld lb. .48½- —
l.c.l., works, frt. alld lb. .51½- —
Paranitrochlorobenzene, kgs., works, lb. .21 .22
Paranitrophenol kgs., works, frt. equald lb. .46 - —
Paranitrotoluene, kgs., frt alld lb. .36 - —
Paraphenetidin, dms., works lb. 90 —
Paraphenylenediamine redistilled, dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Parapnenylphenol, bgs., c.l., works, lb. .57½ —
l.c.l., same basis lb. 62 —
Para-tertiary butylphenol, bgs., c.l., works lb. .27½ —
l.c.l., same basis lb. 28½ —
Parathion, spray powder, 15%, dealers, tins lb. 53 59
tech., dms., works lb. 1.50 —
Para-tertiary-amylphenol, ctns., c.l., works lb. .26 —
l.c.l., works lb. 27 —
tanks, works lb. 25 —
Paratoluenesulphonamide, flake, bbls., frt. alld lb. 64 66
powd. bbls. works lb. 70 —
solid, bbls., frt alld lb. 61 —
Paratoluidin, flake bbls., frt. alld. lb. 64 68
solid, bbls. frt alld lb. 61 —
Pareira brava root, whole, bgs lb. .30 Nom.
ground bxs lb. .40 Nom.
powder, bxs lb. .43 Nom.
Paris green, dealer, distributor, dms., c.l., works, frt. alld, on 96 lbs or over lb. .35 .36
l.c.l., same basis lb .39 .67
Passion flower herb, bls lb .25 .26
Peanut meal, 45%, sacked, mills ton. 92.00 -93.00
Pectin, citrous, NF, powd., bbls lb 2.05 2.06
tech., powd bbls lb 1.50 —
Penicillin, crystalline, potassium, bulk, sterile 1,000,000 units .11 - .13
Procaine, bulk, 1,000,000 units .12 - .15
Sodium, bulk, sterile, 1,000,000 units. .11 - .13
Pennyroyal herb, bls lb 45 .50
Pentachlorophenol, dms., c.l., works, frt equald lb. 21 —
l.c.l. same basis lb. 24 .29
truckload, 20,000 lbs. min same basis lb. .21¼ -
Pentaerythritol tech. bgs., c.l., works lb. .33 —
l.c.l., works lb 34 .36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)
Pentane, industrial, tanks, group 3, gal 12 .13½
Pepper, black, Malabar, spot, bgs. lb. 1.60 - —
red, Carolina, long, bgs lb. .38 - .40
Haitian, bgs lb. .25 Nom.
Japanese, hontakas, bags, afloat lb. .52 - .54
birdseyes, bags lb. .46 Nom.
Louisiana longs, bgs lb. .41 Nom.
Mississippi sports, bgs., source, new crop lb. .41 Nom.
Mombasa, bgs lb. .43 - .44
Nigerian, bgs., afloat lb. .39 - .10
Sierra Leone, bgs lb. .43 - .44
Turkish, bgs., shipm't lb. .35 - .35½
Unganda, bgs lb. .35½ - —
white, bgs lb. 1.51 - 1.52
Peppermint leaves, USP, bls., dms lb. .65 - 66
imported, bls lb 1.05 Nom.
Pepsin NF, 1:3,000, bulk lb. 3.75 - 3.90
Perchloroethylene, dms. c.l., or truckloads, works lb. .11 —
dlvd. E lb. .12 —
l.c.l., works lb. .11¾ —
dlvd E lb. .12½ —
tanks, works lb 10½ —
Peru balsam, dms lb. 1.25 - 2.00
Petrolatum amber, dms., c.l., refy. lb. .04¾ .05⅜
l.c.l., dlvd. lb. .06½ —
tanks, refy lb. .03½ .04⅛
cream, dms., c.l., refy lb. .06 - .07⅛
l.c.l., dlvd. lb. .08¼ —
tanks, refy lb. .04¾ .05⅜
extra, amber, dms., c.l., refy lb. .05 .05⅞
l.c.l., dlvd. lb. .06¾ —
tanks, refy lb. .03¾ - .04⅝
USP, white, lily, dms., c.l., refy. lb. .06⅜ .07½
l.c.l., dlvd lb. .08⅜ —
tanks, refy lb. .05⅛ .06
soft, dms., c.l., refy lb. .06⅜ .07¾
l.c.l., dlvd. lb. .08¼ —
tanks, ref'y lb. .05⅜ —
snow, dms., c.l., refy lb. .07⅛ .08
l.c.l., dlvd. lb. .09⅛ —
tanks, refy lb. .05⅜ .06½
yellow, soft, dms., c.l., refy lb. .05 - .05⅞
l.c.l., dlvd. lb. .06⅝ —
tanks, ref'y lb. .05⅜ —
Petroleum crude, bulk, at wells, California bbl. 1.10 2.99
Illinois bbl. 2.44 2.87
Kentucky bbl. 2.42 2.83
Louisiana-Arkansas bbl. 2.08 2.90
Montana bbl. 1.28 2.775
Oklahoma-Kansas bbl. 2.16 - 2.65
Pennsylvania lower field bbl. 3.82 —
Upper field bbl. 4.25 —
Texas, East bbl. 2.65 —
Gulf coast bbl. 2.38 2.95
North, North-Central bbl. 2.23 2.65
Panhandle bbl. 2.23 2.65
West bbl. 2.33 2.65
Wyoming bbl. 1.28 2.875
Fuel oil, bunker C, No. 6, California, heavy, tanks, refinery bbl. 1.95 - 2.15
light tanks refinery bbl. 2.00 2.25
eastern, tanks, Albany, N. Y. bbls. 2.45 - —
Baltimore, Md. bbl. 2.10 - —
Boston, Mass. bbl. 2.15 - —
Charleston, S. C. bbl. 2.00 - —
Jacksonville, Fla. bbl. 1.97 - —
N. Y. Harbor bbl. 2.10 - —
Norfolk, Va. bbl. 2.05 - —
Philadelphia, Pa. bbl. 2.10 - —
Portland, Me. bbl. 2.15 - —
Providence, R. I. bbl. 2.12 - —
Savannah, Ga. bbl. 2.00 - —
Diesel, tanks, refinery, California gal. .0825- .115
Pennsylvania gal. .0925- .1025
Furnace, tanks, refinery, Arkansas, No. 2 gal. .08375- —
No. 3 gal. .08 - —
N. Y. Harbor, No. 2 gal. .0975- —
group 3, No. 1 gal. .08125- .0875
No. 1 straw gal. 09 .09375
No. 2, straw gal. .07625- .08125
range gal. .0875- —
Pennsylvania, western, No. 1. gal. .1075- .1135
No. 2 gal. .105 - .112
No. 3 gal. .105 - .112
Lacquer diluent, California, 170-225 F., b.r., tanks, ex tax, f.o.b. Los Angeles gal. .167 .207
East coast, tanks, N. J. and N. Y. refinery gal. .18 - —
group 3, benzol-type, tanks, refinery gal. .13125- .13625
toluol-type, tanks, refinery gal. .12125- .12375
Petroleum mineral spirits, regular, California, tanks, ex tax, f.o.b. San Francisco gal. .147 - .157
East coast, tanks N.J., N.Y. gal. .16 —
Group 3, tanks gal. .10875- —
tankwagon, Baltimore gal. .175 - —
Boston gal. .18 - —
Buffalo gal. .185 - —
Newark gal. .17 —
New York gal. .165 17
Philadelphia gal. .165 —
Pittsburgh gal. 19 —
Providence gal. .185 —
Rochester gal. .20 —
Syracuse gal. .21 —
Washington, D. C. gal. .195 —
specially refined, tanks, f.o.b. Watson, Calif gal. .228 - —
f.o.b. Bordertown, Tex., gal. .24 - —
f.o.b. Houston, Texas. gal. .24 - —
f.o.b. Wood River, Ill. gal. .2525 —
tank transport, f.o.b. Carteret, N. J. gal. .336 - —
tankwagon, N. Y. and N. J. gal. .37 - —
Naphtha, cleaners, East Coast, tanks, N. J. and N. Y. refinery gal. .16 - —
Group 3 tanks gal. 11875- —
tankwagon, Newark gal. 17 —
New York gal. .17 —
Philadelphia gal. .165 —
high flash 140° group 3, refinery tanks gal. 134 .1425
high-solvency 205-255 b.r. 37-38° C., mixed anilin pt., tanks, refinery or East Coast gal. 25½ —
25-26° C., m.a.p., tanks, same basis gal .24 30½
Petroleum naphtha, high-solvency, 270-370 b.r., 78-81°C., m.a.p., tanks, same basis, gal. .29 - —
49°C, m.a.p., tanks, same basis gal. .32 - —
36-27 C., m.a.p. tanks, same basis gal. .24 - .33
300-400 b.r., 28°-32° C., m.a.p., tanks, same basis gal. .24 - .30½
340-410 b.r., 36° C., m.a.p., tanks same basis gal .24 —
32° C., m.a.p. tanks, same basis gal. .24 - .30½
27° C., m.a.p. tanks, same basis gal. .34½ —
350-425 b.r., 32 C., m.a.p., tanks same basis gal. .30½ - .31½
V.M.&P., tanks, ref'y California, 245-360 b.r. Los Angeles, gal. .152 —
Portland Ore gal 158 —
San Francisco gal. 157 —
Seattle Wash gal. 158 —
East coast N. J., N. Y., tanks gal 17 —
Group 3, tanks gal 11875- —
tankwagon, Boston gal. .195 - —
Newark gal 185 —
New York gal 185 - —
Philadelphia gal. 180 —
Pittsburgh gal 20 —
Solvent, rubber, California, tanks, ex tax, San Francisco gal. 157 - —
East coast, N. J., N. Y. gal 17 - —
Group 3, tanks gal 11875- —
Stoddard, California, tankwagon, ex-tax, Los Angeles gal. .157 - .197
East coast, N. J., N. Y., tanks gal. .16 —
Group 3, tanks gal. .11375- —

Paraformaldehyde, USP X—Phenol

Petroleum solvent, Stoddard, Pennsylvania, western, tanks, gal. .17 - —
tankwagon, Boston gal. .18 - —
Newark gal. 17 —
New York gal 17 —
Philadelphia gal. .165 .17
Pittsburgh gal. 19 —
Syracuse gal. 21 —
Sulphonate, oil soluble, 70%, sulphonic content, non-ret. dms., c.l., works lb. .2040- —
l.c.l., works lb .2065- —
tanks, works lb. .1850 —
60-62% sulphonic content, non-ret. dms., works lb. .175 .20
l.c.l. works lb. .185 .202
tanks works lb. .145 .185
50-55% sulphonic content, non-ret. dms., works lb. .155 - —
l.c.l., works lb. .165 - —
tanks, works lb. .125 —
Phenobarbital, USP dms., 100 lbs lb 4.50 4.70
Phenobarbital-sodium USP dms lb 4.50 4.70
Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt alld E of Rockies, lb. .19 - —
l.c.l., same basis lb. .19¾ - —
tanks, same basis lb. .17¼ - —
82-84% (cresol 16-18%), dms., c.l., same basis lb. .19 - —
l.c.l., same basis lb. .19¾ - —
tanks, same basis lb. .17¼ - —
39° or above, tar distilled, dms., c.l., same basis lb. .19½ - .20
l.c.l., same basis lb. .20¼ - .21¾
tanks, same basis lb. .17¼ - .19¼
USP, synthetic, dms., c.l., same basis lb. .21 —
l.c.l., same basis lb. .21¾ - —
tanks, same basis lb. .19¼ - —



ACRYLIC MONOMERS

We have manufactured acrylic monomers since 1933, and have supplied them in tank-car quantities for the past ten years. These materials have been widely used because of the distinctive properties which they produce in polymers and copolymers: heat, light, and chemical stability; permanent, internal plasticization; and good adhesion. And these properties are the basis, today, for the constantly expanding use of the acrylic monomers.

PIONEER IN ACRYLICS

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

Phenolphthalein—Potassium Silicate, Solution, Tech., 32.5° Be.

Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazin, NF, fib dms., c.l., frt. adjusted lb. .50 - —
over 2,100 lbs., same basis lb. .52 - —
less than 2,100 lbs., same basis. lb. .54 - —
Phenyl acetate, dms., 100 lb. lots. works lb .50 - —
Salicylate (see Salol)
Phenylacetaldehyde solution, 50%, bots lb 2.40 2.70
100%, bots lb 4.00 4.65
Phenylacetamide 125-lb dms., works. lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
Phenylalamine dextro-laevo, dms., works lb.27 00 -37.50
Phenylcarbethoxy pyrazolone, 250-lb fib dms., dlvd E lb 3.60 - —
less than 250-lb dms. dlvd E lb 4.00 - —
Phenyldiethanolamine, dms., c.l., frt. alld lb. .40 - —
t.c.l., frt. alld lb. .36 - .41
Phenylethanolamine, dms., c.l., works lb. .69½- —
t.c.l., same basis lb. 70 — —
Phenylethyl acetate, dms lb. 1.20 - 1.57
Phenylethylphenyl acetate, bots lb 4.03 4.50
Phenylhydrazin base, CP, bots lb 3.00 3.07
Hydrochloride, commercial, kgs., works lb 1.75 - —
CP, bots., works lb 5.12 — —
Phenylmethylpyrazolone, (see Methylphenylpyrazolone)
Phloroglucinol, coml., fib, dms., works lb 6.40 — —
C.P., bots., fib, dms lb.17.00 -17.25
tech., fib., dms works lb.10.45 - —

Phosgene, 150-lb. cyls., works lb. .27½- —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports ton.45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis long ton. 4.35 - 4.40
72%-70%, b.p.l., c.l., same basis long ton 5.00 - —
75%-74%, b.p.l., c.l., same basis long ton. 6.00 - —
77%-78%, b.p.l., c.l., same basis long ton. 7.00 - —
Finely ground, 65%, b.p.l., basis 30% P_2O_5, minimum, bulk, c.l., mines short ton. 4.62 - —
68% b.p.l., basis 31% P_2O_5 minimum mines short ton. 5.28 - —
70% b.p.l., basis 32% P_2O_5 minimum, mines short ton. 5.83 - —
plus or minus usual menus adjustment clause for oil and labor Prices on entirely pebble 50c. per long ton higher.
Tennessee, brown, run-of-mine, unground, 27-28% P_2O_5, c.l., mines long ton. 6.45 - —
30-29% P_2O_5 c.l., mines long ton. 7.21 - —
Phosphorus, red, amorphous cs., lb. .46 - .47
dms. lb. .44 - .45
yellow, cns. lb. .30 - .37
dms., c.l. lb. .26 - —
Oxychloride, dms., c.l., works lb. .13 - .14
t.c.l., dms., works lb. .15 - .18
tankcars, works 100 lbs. .11½- —

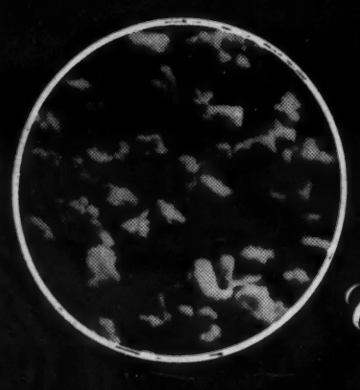
Phosphorus pentasulphide, solid, dms., c.l., works lb. .11½- —
t.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .12 - —
t.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½- .36
Trichloride, dms., c.l., works lb. .13 - .14
t.c.l., works lb. .15 - .18
tankcars, works 100 lbs. .11½- —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .22 - —
t.c.l., same basis lb. .23 - —
tanks, same basis lb. .21½- —
Bbls., ½c. per pound higher.
Phthalimide, 97%-98%, dms. works, frt. alld lb. .65 - —
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Pichi leaves, bgs lb. .16 .17
Picoline (See Alpha, Beta and Gamma Picoline)
Pilocarpine hydrochloride, NF, bots oz. 5.25 6.22
Nitrate, USP, bots, vials oz. 5.10 6.20
Pimento, Guatemala, bgs lb. .20 - .20½
Jamaica, bgs. lb. .28 - .28½
Mexican, bgs lb. .15½- .16
Pinetar, retort, dms., incl. c.l., works lb. .0511- —
t.c.l., same basis lb. .0568- —
whse. lb. .0678- —
Pinkroot, bls lb. 2.50 - 2.55
Piperazine hexahydrate bots., French Codex kilo 8.00 8.50
Piperidine, 95%, dms. frt. equald lb 1.65 1.93
98% dms., same basis lb 1.75 2.60
Piperonyl butoxide, dms., dlvd. E lb 5.00 5.30
Cyclonene, dms., dlvd. E lb 4.20 4.50
Pipsissawa herb (see Prince's pine).

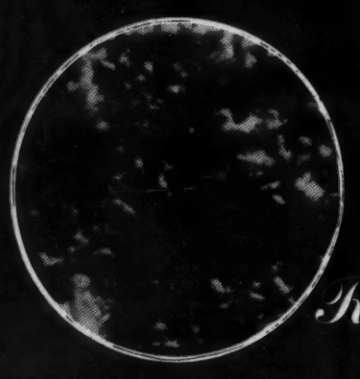
Pitch, burgundy, domestic, dms., mc., c.l., l.c.l., works 100 lbs. 9.80 -10.25
Coaltar, 140°-150° F., m.p., bbls., c.l., works ton.38.00 -39.00
t.c.l., works ton.41.00 - —
Cottonseed, dms., works lb. .07½- .08
Hardwood, paper bgs., c.l., works, lb. .02 - —
Linseed, dms lb. .06½- .07
Petroleum (see Asphalt, petroleum).
Pine, dms., inc., t.c.l., works, South 100 lbs. 7.50 - —
Soybean, dms., works lb. .05½- .06
Tall, dms., works lb. .05½- .06
Plaster of Paris (see Gypsum).
Platinum metal, works oz.90.00 -93.00
Pleurisy root, bls lb. .45 - .50
Podophyllum resin, NF, dms lb.13.20 -14.00
Pokeroot, bls lb. .22 - .23
Polyoxyethylene sorbitan monostearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000 lbs., works lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000 lbs., works lb. .45 - —
smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .35½- .36
10,000-19,999 lbs., same basis lb. .36 - .36½
5,000-9,999 lbs. same basis. lb. .36½- —
standard, bgs lb. .35½- .36
crystals, heat-resistant, bgs., c.l., l.c.l lb. .34 - 34½
standard bgs. c.l., t.c.l lb. .32½- .33
Polystyrene in non-returnable fiber dms. ½c. per lb higher.
Pomegranate root bark, bgs lb. .60 - .65
Poppy flowers, bgs lb. 1.20 - 1.25
Seed, Argentine, bgs lb. .13 Nom.
Czech, bgs. lb. .15½ Nom.
Dutch, bgs lb. .17½- .17¾
Turkish, bgs lb. .13½- .14
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs.10.00 - —
t.c.l., works 100 lbs.10 75 - —
liquid, 45%, dms., c.l., works. 100 lbs. 4.625 - —
t.c.l., works 100 lbs. 5.125 - —
tanks, works 100 lbs. 4.30 - —
solid, 90%, dms., c.l., works. 100 lbs. 9.40 - —
t.c.l., works 100 lbs.10.15 - —
regular, flake, 88-92%, dms., c.l., works 100 lbs. 8.50 - —
t.c.l., works 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
t.c.l. same basis 100 lbs. 4.65 - —
tanks, same basis 100 lbs. 3.55 - —
solid, 88-92% dms., c.l., works 100 lbs. 7.90 - —
t.c.l., same basis, works 100 lbs. 8.65 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms. lb. .24 - —
Bichromate, bgs., c.l., works lb. 14½- —
t.c.l., same basis lb. 14¾- 15⅛
Potassium bichromate in drums ⅝c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs. or more, lb. .50 - .52
25-200-lb lots lb. .55 - .57
Bromide, USP, gran., bbls., kgs, lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 8.25 - —
t.c.l., same basis 100 lbs. 9.50 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 6.75 - —
t.c.l., works 100 lbs. 7.50 - —
USP, gran., bbls., dms lb. .16½- .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works, lb. .09¾- —
t.c.l. works lb. .10 - .11
powd., dms., c.l., works lb. .10¼- —
t.c.l., works lb .10¾- .11¾
export, dms., 1 to 10 tons, works lb. .13 - .13¾
NF, gran., dms lb. .31 - .33
Chloride, USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd., dms lb. .24 - .26
Chromate, tech., bgs lb. .32 - .36
Citrate, USP, gran., dms lb. .37½- .38½
powder dms lb. .40½- .41½
Cyanide, dms., over 500 lbs., works, lb. .55 - —
under 500 lbs., works lb. .57 - —
Fluoborate, fib, dms., c.l., works. lb. .26 - —
t.c.l., works lb. .27 - —
Fluoride, dms., works lb. .24 - —
Gluconate, dms lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacolsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech (see Potash caustic).
USP pellets 100 lb dms 1 to 100 dms lb. .28½- .33
Hypophosphite, NF, ton lots or less, fib dms lb 1.00 - 1.03
Iodide, dms lb. 2.15 - 2.20
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite gran., dms lb. .20 - .21
powd., dms. lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .42 - .43
Trona, Cal unit-ton. .53 - —
50-51% K_2O, paper bgs., Carlsbad N M ton.25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., rms lb. .30 - .32
Pentoborate, gran., bgs., c.l., works ton.184.00 - —
ton lots, bbls., ex whse ton.261.00 - —
less ton lots, bbls., ex whse ton.266.00 - —
Powdered Potassium pentoborate, $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .14 - —
t.c.l., works lb. .14½- .15⅛
Permanganate, tech., dms., works. lb. .22½- .23½
USP, dms., works lb. .24¾- .30¼
Persulphate, dms., c.l., works lb. .18 - .19
t.c.l., works lb. .20 - .22
Phosphate, tetrabasic, bbls., works, lb. .16½- .18⅛
Prussiate, red, kgs lb. .60 - .63
yellow, dms., ton lots lb. .22½- —
smaller quantities lb. .23 - —
kegs lb. .28 - —
Silicate, glass, bgs., c.l., works 100 lbs.14.70 - —
t.c.l. 100 lbs.15.20 - —
solution, clarified, 29° Be, 1 to 2.5 dms., c.l., works 100 lbs. 5.50 - 5.65
t.c.l., 5 dms. or more, works 100 lbs. 6.25 - 6.65
tanks, works 100 lbs. 5.15 - 5.30
tech., 29° Be, 11:2.5, dms., c.l., works 100 lbs. 4.85 - —
t.c.l., dms., works 100 lbs. 5.35 - —
tanks, works 100 lbs. 4.50 - —
32.5° Be., dms., c.l., works. 100 lbs. 4.95 - —
t.c.l. works 100 lbs. 5.45 - —
tanks, works 100 lbs. 4.60 - —

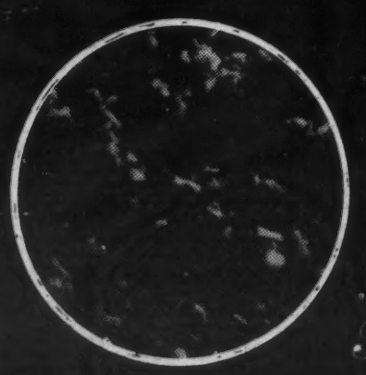
Mathieson announces...

LIGHT SODA ASH

IN THREE DISTINCT GRANULATIONS


Coarse
40X


Regular
40X


Fine
40X

Each granulation demonstrates individual characteristics as to:

density
flowability
rate of solubility
clarity of solution
screen analysis

Limited quantities are immediately available for experimental work and semi-commercial testing, with larger tonnages to be made available as required. Shipments from Saltville, Virginia. For complete information see your Mathieson representative or write direct.

Mathieson CHEMICALS

MATHIESON INDUSTRIAL CHEMICALS COMPANY
Division of
MATHIESON CHEMICAL CORPORATION, BALTIMORE 3, MD.

1414

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Prepared by U. S. Industrial Chemicals Co.

U.S.I. CHEMICAL NEWS

November ★ A Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1952

New Technique Detects, Measures Sulfur Dioxide

A new technique, similar to the widely used carbon monoxide-sensitive gel method, has been developed for detecting and measuring small concentrations of sulfur dioxide, according to a recent report. The method depends upon color changes which occur when granules of a chemically treated silica gel are exposed to the gas. The gel granules are placed in a glass tube, approximately the size of a cigarette, and the air sample is drawn through the tube. Any sulfur dioxide present is absorbed, and reacts almost instantly to cause a permanent, non-reversible color change.

Quantitative measurements can be made by matching the color with standard color cards, measuring the length of the colored portion, or by measuring the volume of sample necessary to cause a certain color change or standard length of discoloration. The best sensitivity obtained so far is approximately 5 ppm for a 150 ml. sample, it is said. Other acidic gases may interfere to some extent, but the colors produced are not the same as those caused by sulfur dioxide. Carbon monoxide does not cause a color change, and variations in temperature and humidity seem to have no effect, according to the report.

Fluoroethylene Polymers Reviewed in Govt. Report

Results of a series of investigations into the nature of monochlorotrifluoroethylene polymers have been made available in a report issued recently by the government. Emphasis is placed on the fact that the modulus of elasticity of these resins increases only gradually over a wide temperature range. The materials do not shatter readily at temperatures as low as —200° C., and they can resist flow under low to moderate loads at temperatures as high as plus 200° C. In addition, they have outstanding electrical resistivity under conditions of high humidity, high temperatures, and in contact with corrosive chemicals. Accordingly, particular reference is made in the report to the usefulness of the resins in wire coating and molding applications for electrical insulation, and fabrication methods are discussed in detail.

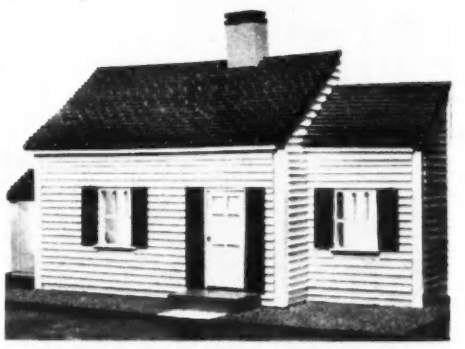
New Peroxygen Bulletin

Various ways of using peroxygen compounds advantageously in the treatment of metal surfaces are outlined in a new bulletin recently issued by a manufacturer. Hydrogen peroxide, persulfates, and peracids, the principal compounds described, have found use in treatments to improve adherence of finishes to metal surfaces, to improve the appearance of metal surfaces by applying chemically produced surface films, and to facilitate plating operations. Procedures covering these uses are given, and various examples are cited.

U.S.I. Exhibiting Products Manufactured for Paint Industry At Annual Industries' Show

Exhibit Includes Full Line of Natural and Synthetic Resins, Industrial Alcohol, Solvents; Model House Illustrates Use of U.S.I. Specialized Resins

The U. S. Industrial Chemicals Co., Division of National Distillers Products Corporation, will exhibit the wide range of products it manufactures for the paint industry at the annual Paint Industries' Show, being held this year at the Palmer House in Chicago, November 18 through 22. Held in conjunction with the annual meeting of the Federation of Paint and Varnish Production Clubs and the annual convention of the National Paint, Varnish, and Lacquer Association, the show brings together the members of the protective coatings industry and the raw materials and equipment manufacturers who supply the industry.



One of the features of U.S.I.'s exhibit is a model house finished inside and out with paints containing various U.S.I. specialized resins.

U.S.I.'s products on display will include industrial alcohol and solvents, natural resins, and synthetic resins. Applications of U.S.I. lacquer solvents and industrial alcohol — including SOLOX for the manufacture and thinning of shellac — will also be shown. Product samples and literature will be available for inspection, and representatives from U.S.I.'s head office will be on hand to answer inquiries.

MORE

Use Metal 'Arm' to Tell How Warm Fabrics Are

A new apparatus which measures the warmth properties of textile fabrics has been developed in the course of research to improve the utilization of cotton, according to a recent report. It is pointed out that while warmth is an important service requirement of many fabrics, it is a difficult property to evaluate, and up to now there has been no generally accepted test. The new apparatus consists of a metal "arm", clothed in a sleeve of the test fabric, which is lowered into a commercial home freezer. A fan in the freezer maintains a wind velocity of 12 to 13 miles an hour over the surface of the fabric. The warmth value of the fabric is rated by determining the difference in energy required to maintain the "arm" at a constant warm temperature in the freezer when uncovered and when covered with the test material. The method is reported to have been useful in testing experimental cotton fabrics for military purposes, and it is expected to find commercial applications.

Re-Usable Concrete Forms Cut Casting Time, Costs

Of interest to plants where construction plans are underway is an idea recently imported from Europe for reducing the time and cost of cast-in-place concrete jobs. The idea involves the use of expansible concrete forms, now being distributed in this country, which can be used many times. Constructed on a special principle that allows adaptation of panel size to a variety of dimensions, the forms consist of wooden struts that are latticed together and hinged at the intersection points. After adjustment on the job site to the required panel dimensions, the form is covered with sisal kraft paper for rough finished work, or with a liner of composition board for a smooth finish. The lining can be quickly tacked into place on the form and stripped off once the concrete has set. The form is then left clean and ready for reuse, according to company spokesmen.

Blood Methionine Level Drops After Severe Wounds

It has been found that the methionine level in the blood drops 30 to 45 per cent from the normal level immediately following surgery or severe burns, according to recent reports. If nourishment is made available, the normal level of methionine in the blood can be restored in about 48 hours. On the basis of these findings, it is thought that the use of methionine in some form following surgery or severe burns has definite possibilities.

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November ★ **U.S.I. CHEMICAL NEWS** ★ 1952

CONTINUED

Paint Show

Model House on View

One of the principal features of the exhibit will be "The House of U.S.I." – a scale model house designed to illustrate the use of U.S.I. resins in all types of household finishes. The house was first unveiled as one of the features of U.S.I.'s new exhibit at the Paint Industries' Show in Atlantic City last year. This year the house has been expanded to show the interior as well as the exterior, symbolizing the importance of U.S.I. products in interior wall and floor finishes as well as in exterior paints.

U.S.I. conscientiously maintains a policy of developing specialized, tailor-made resins designed to do a specific job better than it has been done before. The model house carries out the spirit of this policy by illustrating the use of various U.S.I. AROPLAZ resins in exterior trim finishes, porch and deck paints, and also in exterior house paints, although the resin used for the latter purpose is not in general distribution as yet. On the interior, such resins as AROFLATS for wall finishes, AROFLINTS for floor finishes, AROCHEMS for floor varnishes and enamels, and AROPLAZ resins for trim and for latex paints, are featured.

New Heart Drug Relieves, Prevents Angina Attacks

Peritrate, a drug made available early this year, is reported to have materially benefited 80 per cent of an experimental group of patients suffering from angina pectoris. A dangerous and common heart ailment, angina pectoris is characterized by severe spasmodic chest pains caused when not enough oxygen reaches the heart muscles. Treatment requires the use of a drug capable of easing constriction of blood vessels responsible for the oxygen supply to the heart, without causing undesirable reactions in the patient. In this latest clinical test, which involved more than 40 patients, the new drug is claimed to have shown evidence that in some cases it can prevent attacks of angina as well as relieve the attacks after they have occurred.

Valve Shield Prevents Injury from Acid Spray

A new flexible valve shield made of synthetic rubber has been introduced for use on valves handling acids and other hazardous chemicals. The shield is said to protect the operator from injury if the valve stem packing should fail by cupping the stem and packing gland, preventing acid from spraying on anyone working near by. Molded in the shape of a flower pot, the shield is installed by cutting a hole in the bottom with a slightly smaller diameter than the valve stem. The valve wheel is then removed and the shield pulled down over the stem so that it covers the packing gland. Flexibility is said to be a major advantage because the valve can be inspected and tightened without removing the shield. It can also be installed while the valve is in service.

New Nylon Powder Can Be Cold Pressed, Sintered

Development of a finely divided nylon powder, produced by a special chemical process which makes it suitable for cold pressing and sintering techniques, was announced recently. Use of the material is similar to methods employed in powder metallurgy, and the powder is said to make possible the production of sintered bearings, gears, etc., which have certain advantages over the similar injection molded items. Bearings thus produced are claimed to have an unusually low coefficient of friction and to be suitable for use without lubrication.

Magnetic Pipeline Traps

A new brochure has been issued on the use of magnetic pipe line traps designed to remove tramp iron from liquid flow lines. Such traps serve to protect processing equipment such as pumps, screens, grinders, fillers, etc. The brochure describes typical magnetic trap installations and includes sections on variables affecting trap size and capacity.

TECHNICAL DEVELOPMENTS

Information about manufacturers of these items may be obtained by writing U. S. I.

A new paint roller, designed for all types of paints on all surfaces, features a spring release cover lock which allows rapid removal of the cover for changing and cleaning. **(No. 861)**

A miniature air conditioner, originally used to protect aircraft gun sights from fogging, freezing, and dirt, is now available for civilian applications, such as protection of optical, electronic, and mechanical instruments, business machines, and in storage cabinets for instruments, chemicals, medicines, and foods. **(No. 862)**

Years can be added to the life of concrete floors, it is claimed, with a new "flush-on", quick-acting liquid which prevents breakdown of concrete by sealing, binding, and case-hardening the surface. **(No. 863)**

As a replacement for castor oil, a new, modified, non-drying vegetable oil with similar solubility properties is now available in commercial quantities. The oil is said to have shown promise as a plasticizer for lacquers and coated fabrics. **(No. 864)**

To heat drums of viscous materials to facilitate emptying, a wrap-around drum heater is being marketed. Wattage concentration is claimed to be low enough not to "coke" or burn contents. **(No. 865)**

A stirrer, completely powered by air, and designed especially for use with viscous solvents, lacquers, paints, oils, and chemicals, runs at 50 to 1200 r.p.m. on an air supply of 35 to 100 lb./sq. in., according to the manufacturer. **(No. 866)**

Paint can be removed continuously as fast as the operator can scrape, it is claimed, with a new electric device which employs radiant heat to soften the paint for easy removal with a putty knife. Remover is designed for both home and professional use. **(No. 867)**

A new warmer plate with thermostatic control to within 1° C. is ideal for keeping solutions at desired temperatures, for evaporating them below their boiling points, and as a utility heating plate for temperatures up to 100° C., the manufacturer states. **(No. 868)**

A new mold release solution for plastics, furnished with a rechargeable spray atomizer, dries instantly, is long lasting, and does not carbonize or cause discoloration, it is claimed. **(No. 869)**

A new paint that can withstand temperatures up to 1700° C., consists of copper flakes in a silicone base, dries in 30 minutes, prevents rust, and resists corrosion from mild acids, alkalies, and industrial fumes, according to the manufacturer. **(No. 870)**

PRODUCTS OF U.S.I.

ALCOHOLS
Amyl Alcohol (Isoamyl Alcohol)
Butanol (Normal-Butyl Alcohol)
Fusel Oil—Refined
Propanol (Normal-Propyl Alcohol)

Ethanol (Ethyl Alcohol)
Specially Denatured—all regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof U.S.P., Absolute—200 Proof
Solox*—proprietary solvent—regular and anhydrous

ANTI-FREEZE
Super Pyro* Anti-Freeze
U.S.I. Permanent Anti-Freeze

ETHERS
Ethyl Ether, U.S.P.
Ethyl Ether, Absolute—A.C.S.

ACETONE—A.C.S.

ANSOLS
Ansol* M
Ansol* PR

ACETIC ESTERS
Amyl Acetate—Commercial and High Test
Butyl Acetate
Ethyl Acetate—all grades
Normal-Propyl Acetate

OXALIC ESTERS
Dibutyl Oxalate
Diethyl Oxalate

PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate

OTHER ESTERS
Diatol*
Diethyl Carbonate
Ethyl Chloroformate

RESINS (Synthetic and Natural)
Arochem*—modified types
Arodure*—urea-formaldehyde resins
Arofene*—pure phenolics
Aroflat*—for special flat finishes
Aroflint†—room temperature curing phenolic
Aroplaz*—alkyds and allied materials
Aropol†—copolymer modified alkyds
Ester Gums—all types
Natural Resins—all standard grades

INSECTICIDE MATERIALS
CPR Concentrates: Liquid & Dust
Piperonyl Butoxide
Piperonyl Cyclonene
Pyrenone* Concentrates: Liquid & Dust
Pyrethrum Products: Liquid & Dust
Rotenone Products: Liquid & Dust

INSECTIFUGE MATERIALS
Indalone*
Triple-Mix Repellents

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-chloroanilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloroanilide
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Sodium Oxalacetate

FEED PRODUCTS
Calcium Pantothenate (Feed Grade)
Curbay B-G*
DL-Methionine (Feed Grade)
Niacin, U.S.P.
Riboflavin Concentrates
Special Liquid Curbay*
U.S.I. Vitamin B_{12} and Antibiotic Feed Supplements
Vacatone* 40

OTHER PRODUCTS
Collodions
Ethylene
Methionine (Pharm. Grade)
Nitrocellulose solns.
Propionic Acid
Pib*—Liquid Insulation
Special Chemicals and Solvents
Urethan, U.S.P.
Acetaldehyde
Propionaldehyde

*Reg. U.S. Pat. Off.
†Trademark Pending

U.S.I INDUSTRIAL CHEMICALS CO.
Division of National Distillers Products Corporation

120 BROADWAY, NEW YORK 5, N. Y. BRANCHES IN ALL PRINCIPAL CITIES

Potassium silicate, solution, tech., 40.5° Be., 1 to 2.0, dms., c.l., works	100 lbs.	5.45	- 6.70
l.c.l., 5 dms., works	100 lbs.	5.95	- 7.85
tanks, works	100 lbs.	5.10	- 6.35
Silicofluoride, bbls., works	lb.	.09½-	.10
Stannate, dms., frt. alld. E	lb.	.740	- .796
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90%	ton.	36.25	- —
NF VII, cryst., dms	lb.	.31	- .33
gran., dms.	lb.	.18½-	—
powder, dms.	lb.	.19	- —
Sulphocyanide, cryst., NF (see Potassium thiocyanate)			
Thiocyanate, NF, cryst., dms.	lb.	.82	- 1.08
tech., works	lb.	.77	- .79
Titanate, ctns., c.l., works	lb.	.12½-	—
5-ton lots, works	lb.	.12¾-	—
1-ton lot or less, works	lb.	.13	- —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO	ton.	16.00	- —
Potassium-sodium tartrate (see Rochelle salt).			
Potassium-titanium fluoride, fib. dms., works	lb.	.35	- .38
Oxalate, bbls., dms	lb.	.85	- .95
Potassium-zirconium fluoride, fib. dms., c.l., works	lb.	.50	- —
l.c.l., works	lb.	.52½-	.55
Pregnenolone, bots	gm.	1.50	- —
Acetate, bots	gm.	1.25	- —
Prickly ash bark, bls	lb.	.55	Nom.
Berries, bgs.	lb.	.70	- .75
Prince's pine herb, bls	lb.	.60	- .61
Procaine hydrochloride, USP, dms., frt. alld.	lb.	3.10	- 3.40
Progesterone, USP, 100 gms. bots	gm.	1 75	- —
Propane, commercial grade, tanks, group 3	gal.	.04	- —
Propionaldehyde, dms., 5,000 lbs. or more, custom contract	lb.	.60	- —
Propyl acetate, normal, dms., c.l., dlvd	lb.	.125	- —
l.c.l., dlvd	lb.	.135	- —
tanks, dlvd	lb.	.1075-	—
Aldehyde (see Propionaldehyde).			
Gallate, dms., 2,000 to 100 lb. lots, works	lb.	3.90	- 4.40
Parahydroxybenzoate, USP, dms	lb.	2.20	- 2.40
Propylene dichloride, dms., c.l., dlvd. E	lb.	.0845-	.095
l.c.l., same basis	lb.	.0950-	.1050
tanks, same basis	lb.	.07	- .08
Oxide, dms., c.l., dlvd. E	lb.	.19½-	.20½
l.c.l., dlvd E	lb.	.20½-	.21½
tanks, dlvd. E	lb.	.17½-	.18½
Propyleneglycol, industrial, dms., c.l., dlvd. E	lb.	.19¼-	.21¼
l.c.l., same basis	lb.	.20¼-	.22¼
tanks, same basis	lb.	.17½-	.18½
USP, dms., c.l., dlvd. E	lb.	.20¼-	.21½
l.c.l., same basis	lb.	.21¼-	.22¼
tanks, same basis	lb.	.18½-	.19½
Methylether, dms., c.l., dlvd. E	lb.	.20	- —
l.c.l., same basis	lb.	.21	- —
tanks, same basis	lb.	.18½-	—
Propylthiouracil, bots., 50-kilo lots or more	kilo.	55.00	- —
smaller lots	kilo.	55.10	-55.30
Psyllium seed, black, bgs	lb.	.27	- .30
blonde, bgs.	lb.	.19	- .20
husks, bgs.	lb.	.50	- .51
Pulsatilla herb, bls	lb.	.52	- .53
Pumice, com. grd., coarse to fine, 0½, 1, 1½, 2, 3 bgs., ton lots.	lb.	.03⅝-	.04⅛
smaller, lots	lb.	.03⅞-	.04⅛
Italian, silk-screen, coarse, bags, ton lots	lb.	.06½-	—
fine, bgs., ton lots	lb.	.04	- —
sun dried, coarse, bgs ton. lots	lb.	.02½-	.04
fine, bgs., ton lots	lb.	.02½-	.04
Pumice in bbls. is ½c. per lb. higher.			
Pumpkin seed, bgs	lb.	.18	- .20
Pyrethrin, synthetic (see Allethrin).			
Pyrethrum flowers, fine-grd., 0.9% pyrethrins bbls. works.	lb.	.50	- —
powder, 1.3% pyrethrins, bbls., works	lb.	.71½-	—
liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless basis, bbls., works	gal.	9.75	-10.50
(30 to 1) basis 3 grams pyrethrins per 100 cc. odorless base, bbls., works	gal.	15.75	- —
oleoresin dewaxed, 20%, for aerosol bombs, dms., works	lb.	11.00	-12.00
Pyridin, denaturing, dms., c.l., works and frt. equald	gal.	2.67	- —
l.c.l., same basis	gal.	2.70	- —
refd., 2° non-ret. dms., c.l., same basis	lb.	.89½-	1.04⅛
l.c.l., same basis	lb.	.90	1.05
Pyridoxine hydrochloride, 100-gram bots	gram.	.55	- —
Pyrites	long-ton.	No prices.	
Pyrocatechol (see Catechol).			
Pyrogallol, NF	lb.	3.25	- 3.43
Pyrophyllite, insecticide grade, 200 mesh, bgs., c.l., mines	ton.	13.00	-13.50
No. 3, 200 mesh, bulk, c.l., mines.	ton.	11.00	- —
rubber grade, 140 mesh, bgs., c.l., mines	ton.	11.50	-12.00
standard, 200 mesh, bulk, c.l., mines	ton.	12.50	- —
230 mesh, bulk, c.l., mines.	ton.	13.50	- —
325 mesh, bulk, c.l., mines.	ton.	16.75	- —
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.			
Pyroxylin, USP, bots	lb.	9.59	- —
Scrap, opaque, amber, cs., works,	lb.	.15	- —
black, cs., works	lb.	.12	- —
mixed, mottled, cs., works	lb.	.11	- —
white, china, ivory, cs., works,	lb.	.12	- —
dense, cs., works	lb.	.12	- —
translucent, pastels, cs., works,	lb.	.14	- —
transparent, colorless, cs., works	lb.	.20	- —
colors, cs., works	lb.	.14	- —
shavings, opaque, amber, cs., works	lb.	.12	- —
mixed, colors, cs., works	lb.	.12	- —

Q

Quebracho extract, clarified, grd., 70% tannin, bgs., c.l.,	lb.	.16½-	.16¾
liquid, 35% tannin, bbls., works, tanks, same basis	lb.	.08¼-	—
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12½-	—
ordinary, 63% tannin, bgs., c.l., same basis	lb.	.11 31/64	—
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.			
Queen of the meadow root, bgs	lb.	.25	- .26
Quercitron extract, crystals, No. 1, bbls., l.c.l.	lb.	.40	- —
liquid, No. 1, bbls., l.c.l.	lb.	.19	- —
Quicksilver, flasks (76 lbs. net)	flask	195.00	-196.00
Quince seed, bgs	lb.	.80	- 1.50
Quinidine, NF, V cryst., cns., 100-oz. lots	oz.	1.90	- —
powd., precip., cns., 100-oz. lots	oz.	1.85	- —
Sulphate, USP, cns., 100-oz. lots	oz.	1.00	- —
Quinine, NF, cns., 100-oz. lots	oz.	.70	- —
Bisulphate, USP, cns., 100-oz. lots	oz.	.51	- —
Dihydrochloride, USP, cns	oz.	.70	- .72
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.75	- —
Hydrobromide, NF, cns., 50-oz. cns.	oz.	.63	- —
Hydrochloride, USP, cns., 100-oz. lots	oz.	.53	- —
Phosphate, NF, cns., 100-oz. lots	oz.	.76	- —
Salicylate, NF, cns., 100-oz. lots	oz.	.66	- —
Sulphate, USP, cns., 100-oz. lots	oz.	.56½-	—
Quinine and Urea hydrochloride, NF, cans	oz.	.68	- —
Quinolin, ret. dms., c.l., frt. equald.	lb.	.50¾-	—
l.c.l., same basis	lb.	.51¾-	—
tanks, same basis	lb.	.50	- —

R

R salt, paste, basis, 100%, dms., frt. alld.	lb.	.83	- —
powd., basis, 100%, frt. alld.	lb.	.88	- —
Raspberries, dried, bbls	lb.	1.20	- 1.25
Red, BON, arylid, deep shades, bbls.	lb.	3.60	- —
light, medium shades, bbls.	lb.	2.75	- —
maroons, pure, bbls	lb.	1.75	- —
resinated, bbls	lb.	1.50	- —

Potassium Silicate, Solution, Tech., 40.5° Be.—Red Toluidin Toner

Red, cadmium, CP, dark shade, bbls., frt. alld. E. of rockies	lb.	4.30	- —
light shade, same basis	lb.	4.00	- —
medium shade, bbls., same basis	lb.	4.25	- —
medium-light shade, bbls., same basis	lb.	4.05	- —
orange shade, bbls., same basis	lb.	NP	- —
lithopone, deep shade, bbls., same basis	lb.	1.76	- —
light shade, bbls., same basis,	lb.	1.61	- —
maroon shade, bbls., same basis	lb.	1.85	- —
medium shade, bbls., same basis	lb.	1.71	- —
medium-light shade, bbls., same basis	lb.	1.66	- —
orange-red shade, bbls., same basis	lb.	1.57	- —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco.

Carmine No 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes coaltar).

Eosin toner, bbls., works	lb.	1.60	- —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y	lb.	.12½-	—
Iron oxide, pure, 98% ferric oxide, bgs., c.l., works	lb.	.12¼-	—
l.c.l., works	lb.	.12½-	—
natural 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis	lb.	.03¾-	—
Red, Lake C, toner, alizarin, bbls., works	lb.	1.10	- 1.30
Lithol, toner, bbls., works	lb.	.76	- —
rubin, toner, pure ons., works	lb.	1.50	- —
resinated, bbls., works	lb.	1.40	- —
Virginia-type, bbls., works	lb.	1.40	- —
Maroon tone, BON, arylid, dlvd	lb.	3.60	5.90
Cadmium, deep, bbls., works,	lb.	1.20	- —
regular, bbls., works	lb.	1.10	- —
MNPT, toner, kgs., works	lb.	3.60	- —

Maroons in smaller pkgs 5c. per lb. higher.

Mercury oxide, tech., bbls., 10,000 lbs. works	lb.	4.22	- —
smaller lots, works	lb.	4.24	- —
Metallic, bbls., c.l., works	lb.	.02½-	—
l.c.l. works	lb.	.02¾-	—
Oxide (see Red, iron oxide)			
Persian gulf, bgs. c.l., works	lb.	.06¾-	—
l.c.l., works	lb.	.07	- —
Para toner, bbls	lb.	.85	- —
Chlorinated, kgs	lb.	1.10	1.15
Phloxin toner (see Red eosin toner).			
Rhodamine, molybdated, PMA., kegs	lb.	4.90	- —
tungstated, PTMA, works, kegs.	lb.	6.35	- —
Spanish, oxide, bbls. c.l., ex dock	lb.	.05¾-	—
l.c.l., ex dock	lb.	.06	- —
ex whse., New York	lb.	.06½-	—
Toluidin toner, deep shades, kgs., works	lb.	1.40	- —
light shades, kgs., works	lb.	1.40	- —

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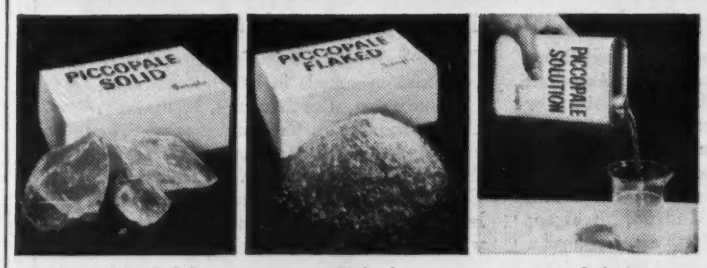
a completely New
entirely Different
surprisingly Low Cost
BASIC RAW MATERIAL

PICCOPALE

A 100% Polymerized Petroleum Resin

Clear, Clean
Transparent, Thermoplastic
Available in Enormous Quantities

By the train load if you want it



Available Solid — Flaked — or in Solution

PICCOPALE is a completely new type of synthetic resin—not just another variety of one of the familiar types. It is entirely different from anything developed heretofore . . . is produced in very large quantities . . . and is priced low enough to make it feasible for use as a basic raw material.

PICCOPALE provides good chemical resistance, pale initial color, excellent compatibility and ready solubility. This bulk raw material is waterproof, low in cost, high in quality and readily available.

We will be glad to send complete data and samples. Please specify application, and whether flake, solid or a liquid solution of PICCOPALE is desired.

PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.
CLAIRTON · PENNSYLVANIA
Plants at: Clairton, Pa., West Elizabeth, Pa., and Chester, Pa.

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PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.
CLAIRTON, PENNSYLVANIA

Please send sample of PICCOPALE for (*application*) _____

(*check*) flake ☐ solid ☐ liquid solution ☐

Name _____

Company _____

Address _____

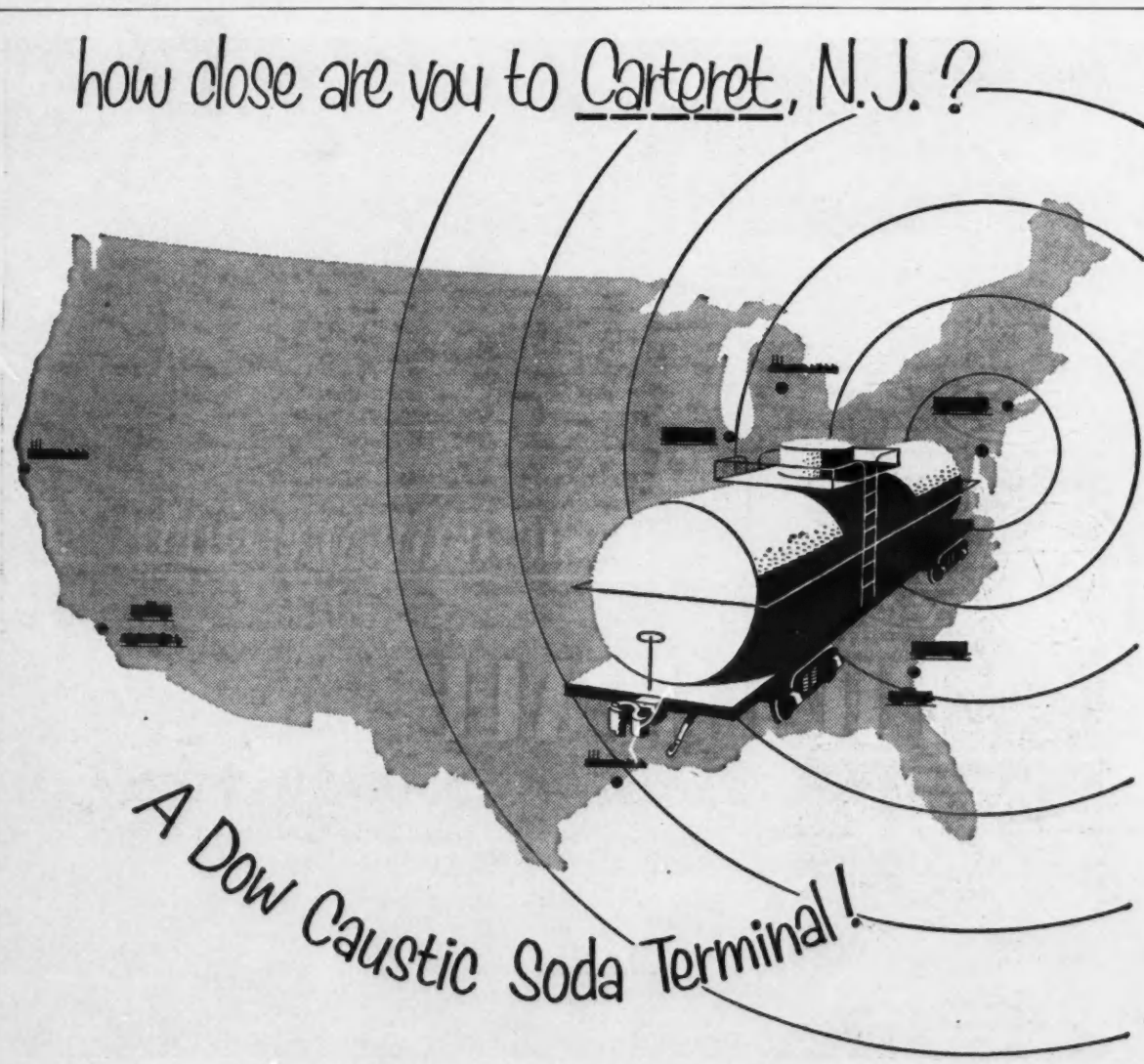
(OPD)

Red, Turkey—Sodium Chromate

Red, turkey, bbls., works	lb.	.14½	—
Tuscan, bbls. frt. equald	lb.	.24½	.25
Venetian, 15%, bgs., works	lb.	.0350	.0375
20%, bgs., works	lb.	.04	—
25%, bgs., works	lb.	.0450	—
30%, bgs. works	lb.	.0475	—
35%, bgs., works	lb.	.05	—
40%, bgs. works	lb.	.0525	—
Vermilion, Amer., bbls	lb	.32	—
Quicksilver, ctns	lb.	3.37	—
Watchung-type, bbls.	lb	1.95	—
Red KB base (see Chloro (4)-2-toluidine).			
Red precipitate, NF, powd., dms	lb	4.37	4.41
Red saunders, NF powd., bbls	lb.	.35	—
Rennin, NF, powder	lb	6.25	—
Resorcinol, tech. grade, dms., c.l., works	lb	.82½	—
l.c.l., works	lb	.83½	—
USP, cryst., dms., works	lb	2.75	—
powd., dms., works	lb	2.95	—
Monoacetate, NF, dms.	lb	3.25	3.45
Rhatany root, bgs	lb	15	.16
Rhodinol, 5-lb. cans	lb	40.00	-56.00
Rhubarb root, China, whole, cs	lb.	.85	.86
powd., bbls	lb.	.95	.96
India, whole, bgs	lb.	.35	.36
powdered, bbls	lb.	.40	.44
Riboflavin, USP, bots., dlvd	kilo.	125.00	—
readily soluble, bots., dlvd	kilo.	125.00	—
Rice bran, concentrate, dms. Cedartown, Ga	lb.	.79	—
Rochelle salt, USP, gran., powd., dms., c.l.	lb.	.32½	—
5,000-lb. lots, dms., c.l	lb.	.32½	—
smaller lots	lb.	.33½	.38½
Rose flowers, pale, bls	lb.	.45	Nom.
Rosemary flowers, bls	lb.	.95	.96
Leaves, French, bls.	lb.	.10	.10½
Portuguese, bls.	lb.	.07	.07½
Spanish, bls	lb.	.08½	.09
Rosin, gum and wood (see Naval Stores, Protective Coatings market).			
Rotenone, CP, bbls., works	lb.	20.00	—
tech., bbls., works	lb.	16.50	—
Rottenstone (see Tripoli)			
Rue herb, bls	lb	.35	.40
Rutin, NF, 25-kilo lots, fib. dms.	kilo.	27.50	-40.00
10 to 25-kilo lots, fib. dms.	kilo.	28.50	-40.00
1 to 10-kilo lots, fib. dms	kilo.	30.00	-40.00
Ryania, 100% powd., bgs., works	lb.	.20	—

S

Sabadilla seed, powd., bbls	lb.	.70	—
activated, ground with lime, bbls	lb.	.41	.42
Saccharin, USP, gran., soluble, dms., 1000-lb. lots	lb	1.60	—
smaller lots	lb	1.70	1.80
powd., soluble, insoluble, dms., 1000-lb. lots	lb	1.65	—
smaller lots	lb	1.75	1.95
Saffower, Egyptian, ols	lb.	.60	.65
Saffron, Mexican, bls	lb.	.95	.96
Spanish, USP, tins	lb.	22.00	-23.00
Safrol, dms	lb.	.72	1.35
Sage, Cretan, bls	lb.	.11½	—
Cyprus, bls	lb.	.09	.09½
Dalmatian, bls	lb.	.46	.47
Greek, bls.	lb.	.10½	.12½
Officinalis, Italian, bls	lb.	.20	.21
Spanish, stemless, bls	lb.	.12	.13
Syrian, bls	lb.	.10½	.12½
Turkish, bls	lb.	.12	.12½
Sago flour, raw, bgs	lb.	.07¼	.07¾
refined, bgs.	lb.	.08½	.09
Sal soda (see Soda sal).			
Salol, NF, gran., bbls., kgs	lb.	1.05	—
fib. dms	lb.	1.07	1.08
Powdered salol, 25c. higher.			
Salt, rock, paper bgs., c.l., works, 100 lbs.		.63	—
l.c.l.	100 lbs.	1.09	—
Table, vacuum, common, fine, paper bgs. c.l., works	100 lbs.	.77	—
l.c.l., works	100 lbs.	1.12½	—
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton.	17.00	—
Saltpeter, cryst., bbls., 10-ton lots,	100 lbs.	14.40	—
smaller lots	100 lbs.	14.65	-14.90
powd., bbls., 20-ton lots	100 lbs.	10.75	—
smaller lots	100 lbs.	12.00	-12.50
gran., bbls., 20-ton lots	100 lbs.	9.75	—
smaller lots	100 lbs.	11.10	-11.50
NF, gran., dms	lb.	09¾	.17¾
Saltpeter in bags, 50c. per 100 lbs. less; in kegs, $1 more.			
Sandalwood chips, East Indies, bgs.,	lb.	.65	.66
powd., dms	lb.	.75	.76
Sanguinarine nitrate, bots	oz.	4.75	5.50
Santonin, NF, dom., dms., cryst., powd., cns	lb.	110.00	-120.00
imported, cryst., powd., cns	lb.	112.50	—
Saponin, No. 1, 100-lb. dm	lb	2.75	—
Sarsaparilla root, dom., bls	lb.	.45	.50
Honduras, bls	lb	.38	.40
Mexican, bls	lb	.22	.25
Sassafras bark, ord., bls	lb.	.44	.45
select, bls	lb.	.55	.56
Savory, French, bls	lb	.15½	.16
Spanish, bls	lb.	.14	.16
Saw palmetto berries, bgs	lb.	.32	.38
Scammony resin, lump, cns	lb	1.95	2.20
powd., cns	lb	2.05	2.30
Root, bgs	lb.	.11	.13
Schaeffers salt, paste, dms., frt. alld.	lb.	.77	—
powder, bgs., frt. alld.	lb.	.80	—
Scopolamine hydrobromide, bots.	oz.	14.00	-15.00
Hydrochloride, USP, bots	oz.	84.00	—
Seidlitz mixture, bbls., 5,000 lbs	lb.	.30½	—
smaller lots	lb.	.31	.33
Selenium, powd, dms., dlvd	lb.	3.25	—
Senega root, bls	lb.	2.35	- 2.40
Senna leaf, Alex., half-leaf, bls	lb.	.22	- .23
sifting, bgs.	lb.	.18	- .19
Tinnevelly, No. 1, bls	lb.	.20	- .21
No. 2, bls	lb.	.18	- .19
No. 3, bls	lb.	.14	- .15
powdered, bls., bxs	lb.	.17	- .18
Pods, bls.	lb.	.33	- —
Serpentaria root, bls	lb.	4.50	- —
Sesame seed, Nicaragua, hulled, bgs.	lb.	.21½	.25
natural, bgs	lb.	.13¾	.14
Turkish, bgs	lb.	.15	.15½
Shellac, bleached, bonedry, bgs., 1,500-lb. lots	lb.	.44	—
bbls., 1,500-lb. lots	lb.	.45	—
kgs., 1,500-lb. lots	lb.	.47	—
refined, bgs., 1,500-lb. lots	lb.	.54	—
bbls., 1,500-lb. lots	lb.	.55	—
kgs., 1,500-lb. lots	lb.	.57	—
Bonedry shellac prices for less than 1,500-lb lots, 1c per lb higher for all packages.			
Lemon, No. 1, bgs	lb.	.32	- .34
No. 2, bgs	lb.	.29	- .32
Superfine, bgs., 10-bg. lots	lb.	.28	- .30
TN, bgs., 10-bg. lots	lb.	.25	- .29
Shellac in 1 to 9 bgs., 1c. more.			
Shingle stain oil (see Oil, shingle stain).			
Silica, amorphous, dry-grd., 325 mesh, bgs., c.l., fill., works	ton.	25.00	—
l.c.l., works	ton	30.00	-40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works	ton.	20.00	—
l.c.l., works	ton.	25.00	-30.00
140 mesh, bgs., c.l., works	ton.	15.00	- —
l.c.l., works	ton.	20.00	- —
Silicon tetrachloride, tech., dms., c.l., works	lb.	.16	- —
l.c.l. works	lb.	.20	- .26½
Silver bullion, ingots, cs	oz.	.83¼	- —
Cyanide, 6lb. dms., 2,500-oz. lots	oz.	.75½	- —
1,000-oz. lots	oz.	.76¼	- —
500-oz lots	oz.	.76¾	- —
100-oz. lots	oz.	.76¾	- —
Nitrate, CP cryst., bots., 2,500-oz. lots	oz.	.53¾	- —
1,000-oz. lots	oz.	.54⅞	- —
500-oz. lots	oz.	.55¼	- —
250-oz. lots	oz.	.55½	- —
USP granular silver nitrate, 4c. per oz. higher.			
Proteinate, mild, USP, bots., dms., 1,000-oz. lots	oz.	1.05	- —
strong, NF, bots., dms., 1,000-oz. lots	oz.	1.00	- —
Simaruba bark, bls	lb.	.90	Nom.
Skullcap herb, Eastern, bls	lb.	.50	- .65
Western, bls	lb.	.30	- .35
Skunk cabbage root, bls	lb.	.60	- —
Slate flour, bgs., c.l., works	ton.	7.55	-13.00
l.c.l., ex whse	ton.	19.85	-27.35
Sloe berries, bgs	lb.	.24	- .28
Smalt, black, ctns	lb.	.15	- —
Blue, ctns	lb.	.18	- —
Snakeroot, Canada, bls	lb.	.75	- .80
Soapbark, bls.	lb.	.28	- .30
crushed, bls., bbls	lb.	.33	- .34
powd., bbls	lb.	.35	- .37
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs.		1.60	- —
l.c.l., stock points	100 lbs.	2.85	- 4.62
bbls., c.l., works	100 lbs.	2.15	- —
l.c.l., stock points	100 lbs.	3.35	- 4.12
bulk, c.l., works	100 lbs.	1.30	- —
light, 58%, paper bgs., c.l., works	100 lbs.	1.50	- —
l.c.l., stock points	100 lbs.	2.75	- 4.52
bbls., c.l., works	100 lbs.	2.05	- —
l.c.l., stock points	100 lbs.	3.25	- 5.02
bulk, c.l., works	100 lbs.	1.20	- —
Soda, caustic, flake, powd., 76%, c.l., works	100 lbs.	3.75	- —
l.c.l. stock points	100 lbs.	4.93	- 6.77
liquid, 50% sellers' tanks, works, dry basis	100 lbs.	2.55	- —
50% rayon-type tanks, works, dry basis	100 lbs.	2.65	- —
70% sellers' tanks, works, dry basis	100 lbs.	2.65	- —
rayon type, tanks, works, dry basis	100 lbs.	2.75	- —
solid, 76%, dms., c.l., works	100 lbs.	3.35	- —
l.c.l., stock points	100 lbs.	4.55	- 5.05
Sal, bgs., c.l., works	100 lbs.	1.40	- —
l.c.l., works	100 lbs.	1.70	- —
Soda-lime, USP, dms	lb.	.23	- .25
Sodium acetate, anhyd., bgs., c.l., works	lb.	.12	- —
l.c.l., dms	lb.	.12¾	- —
NF, 60%, dms., works	lb.	.08½	- —
Alginate, refined, water-soluble, bbls., works	lb.	.83	- —
semi-refined, bbls., works	lb.	.54	- —
NF, white, powd., dms., ton lots, works	lb.	1.40	- —
smaller lots	lb.	1.55	- 1.65
Antimoniate, bbls., c.l., dlvd. E.	lb.	.30	- —
l.c.l., dlvd.	lb.	.31½	- —
Arsenate, dms., c.l., works	lb.	.12½	- —
l.c.l., dms., works	lb.	.13¾	- .14¾
Arsenite, dms., c.l., works	lb.	.13½	- —
l.c.l., dms., works	lb.	.14¼	- .15¼
solution, dms., works	gal.	.70	- 1.10
Benzoate, tech., bbls., dms., 100 lbs. or more	lb.	.37½	- .39
USP, bbls., dms., 100 lbs. or more	lb.	.44½	- .46
Bicarbonate, USP, gran., bgs., c.l., works	100 lbs.	2.50	- —
l.c.l., works	100 lbs.	3.15	- —
powd., bgs., c.l., works	100 lbs.	2.10	- —
l.c.l., works	100 lbs.	2.75	- —
Bichromate, bgs., c.l., works	lb.	.11	- —
l.c.l., same basis	lb.	.11¼	- .13
Bifluoride, bbls., c.l., works, frt. equald	lb.	.1375	- —
l.c.l., same basis	lb.	.1415	- —
Bisulphate, bulk, c.l., works.	100 lbs.	2.00	- —
dms., c.l., works	100 lbs.	2.65	- 3.85
l.c.l., works	100 lbs.	3.05	- 3.65
Bisulphite, anhyd., bgs., c.l., works.	100 lbs.	4.05	- —
l.c.l., works	100 lbs.	4.30	- —
solut. 35°, bbls., c.l., works.	100 lbs.	1.40	- —
l.c.l., works	100 lbs.	1.80	- —
Borate (see Borax)			
Bromide, USP, bbls., kgs., works,	lb.	.34	- .35
Cacodylate, NF, jars, dms	lb.	8.52	- —
Carbonate, anhydrous (see Soda ash). crystalline, decahydrated (see Soda sal). monohydrated, bgs., c.l., works	100 lbs.	2.65	- —
l.c.l., works	100-lbs.	3.05	- —
Chlorate, cryst., dms., c.l., works.	lb.	.08¼	- —
l.c.l., works	lb.	.08¾	- .09¼
Chloride, tech (see Salt).			
USP, dms.	lb.	.05	- .12
Chlorite, tech., dms., works	lb.	.58	- .73
Chloroacetate, tech., dms., c.l., works	lb.	.24	- —
l.c.l., works	lb.	.25	- .26
Chromate, dms., c.l., works	lb.	.12¾	- —
l.c.l., same basis	lb.	.13	- .13¾



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Prompt and efficient caustic soda delivery is of the greatest importance to American industry to keep production steady. For this reason Dow maintains an outstanding network of distribution facilities. In addition to Dow's caustic soda solution terminal in Carteret, New Jersey—Dow operates caustic soda plants in Midland, Michigan; Freeport, Texas and Pittsburg, California.

Caustic soda solution is also shipped from bulk tank terminals in Charleston, South Carolina and Los Angeles, California. Caustic soda solid, flake and ground flake are shipped from terminals in Chicago, Illinois; Port Newark, New Jersey and Charleston, South Carolina. These distribution points provide American industry with the superior service it requires.

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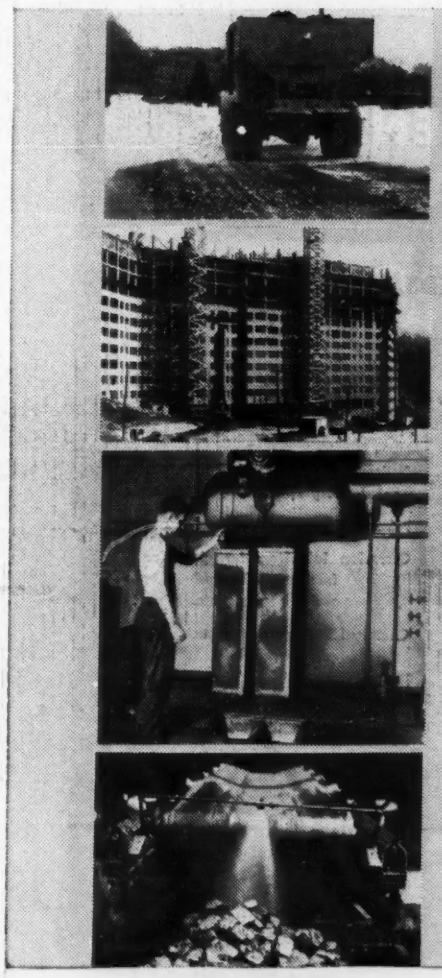
Sodium citrate, anhyd., dms....lb. .60 - .65
USP VIII, gran., dms.....lb. .22½- .29¼
USP XIV, gran., dms.....lb. .28 - .32
Sodium citrate USP powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots., works lb. .85 - 1.10
smaller lots, works.....lb. 1.00 - 1.25
Cyanide flake, 96-98% dms., c.l., or 20,000-lb. lots lb. .168 - —
over 1,000 lbs.....lb. .178 - —
100-lb. to 1,000-lb. lots lb. .188 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., dms lb. .14¾- —
anhydrous, dms., c.l., works lb. .17 - —
l.c.l.....lb. .17¾- —
Fluoride, white, 90%, bbls., c.l., works lb. .11 - —
l.c.l., works.....lb. .1140- —
95%, bbls., c.l., works.....lb. .1125- —
l.c.l., works.....lb. .1165- —
Fluoroacetate, monobasic, 8-oz. tins, 50 to a case, works. lb.12.00 - —
2 to 25 tins to case, works lb.12.00 -16 50
1 oz. tins, 16 to 64 to case, works lb.16.50 -21.00
Formate, bgs., c.l., divd....100 lbs. 7.10 - —
l.c.l.....100 lbs 8.15 8.45
Gentisate, 100-lb. fib. dms..... lb. 8.50 - —
Gluconate, technical, bgs.....lb. .35 - —
refined technical, dms.....lb. .80 - .83
Glutamate, monobasic, dms., c.l lb. 1.67 - 1.69
smaller lots, divd.....lb. 1.66 - —
Glycerophosphate, NF, cryst., bbls. lb. 1.80 - 1.95
powder, bbls.....lb. 1.85 - 2.00
solution, 75%, cbys.....lb. 1.06 - 1.21
Hydride, dms., works.....lb. 2.00 - 3.00
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .24½- —
l.c.l., frt. alld.....lb. .25 - —
Hydroxide, tech. (see Soda caustic).
NF, pellets, 100-lb. dms., 1 to 100 dms lb. .18½- .23
Hypophosphite, NF, dms, ton lots or less lb. .95 - .98
Hyposulphite, photo grade, bgs., c.l., works..100 lbs. 4.00 - 4.25
l.c.l., same basis....100 lbs. 4.65 7.15
pea crystals, bgs.....100 lbs. 4.50 - —
gran., bgs., c.l., works.100 lbs. 5.00 - —
tech., bgs., c.l., works..100 lbs. 4.00 - —
l.c.l., works.....100 lbs. 4.40 - 6.90
Sodium, hyposulphite crystals in bbls. 50c. higher.
NF (see Sodium thiosulphate).
Iodide, USP, bots., dms.....lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms. cbys., works lb. .26½- —
tech., 50%, dms., cbys., works. lb. .16½- —
Laurylsulphate, dms., c.l., divd. lb. .25 - —
l.c.l., divd.....lb. .26 - —
tanks, divd.....lb. .23 - —
Metabisulphite, see sodium bisulphite
Metaborate, octahydrate, gran., bgs., c.l., works ton.78.50 - —
l.c.l., ex whse.....ton.124.50 -129 50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.
tetrahydrate, c.l., bbls., works. ton.199.50 - —
Metal, tanks, works.....lb. .16 - —
bricks, dms works.....lb. .17 - .19
Metanilate, bbls., frt. alld.....lb. .62 - —
Metasilicate, annyd., bgs., c.l., works 100 lbs. 4.70 - —
l.c.l., works.....100 lbs. 4.95 - 5.45
dms., c.l.....100 lbs. 5.05 - —
l.c.l.....100 lbs. 5.30 - 5.55
Pentahydrate, bgs., c.l., works, 100 lbs. 3.80 - —
l.c.l., bgs., works....100 lbs. 4.15 - 4.55
dms., c.l., works.....100 lbs. 4.20 - —
l.c.l., works.....100 lbs. 4.55 - 4.95
Molybdate, crystals, bbls., works lb. .75 - .85
powd., anhy. dms. works lb. 1.05 - 1.06
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls.....lb. .70 - —
Nitrate, crude, bgs., c.l., works. ton.51.00 - —
bulk, c.l., works.....ton.47.50 - —
imp., 100-lb. bgs., c.l., Atl., Gulf, Pac. whse ton.57.00 - —
bulk c.l., same basis ton.53.50 - —
Nitrite, bbls., c.l., works, frt. equald lb. .07¼- —
l.c.l., same basis.....lb. .08¾- —
USP, gran., dms.....lb. .17 - —
Orthosilicate, anhyd., dms., c.l., works..100 lbs. 5.85 - —
l.c.l., works.....100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works 100 lbs. 4.75 - —
l.c.l., works.....100 lbs. 5.50 - —
Oxalate, neut., bgs., works...lb. .104 - —
Para-aminobenzoate, dms., 1,000-lb. lots or more lb. 3.00 - —
smaller lots.....lb. 3.05 - 3.40
Para-aminosalicylate dms., 1,000-lb. lots., frt adjusted. lb. 4.00 - —
smaller lots, same basis...lb. 4.05 - 4.50
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald.lb. .25½- —
l.c.l., same basis.....lb. .26½- .28¼
pellets, bgs., c.l., same basis..lb. .25 - —
l.c.l., same basis.....lb. .26 - 28
powd., bgs., c.l., same basis..lb. .24 - —
l.c.l., same basis.....lb. .25 - 27
Pentachloropnenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.
Perborate, USP, tech., bbls., c.l., works..lb. .193 - —
l.c.l., works.....lb. .198 - —
Peroxide, dms., c.l., divd. E. of Miss lb. .1860- —
l.c.l., same basis.....lb. .1910- .2010
Phenolsulphonate, USP IX, gran., dms lb. .44 - .45
powd., dms.....lb. .47 - .48
Phosphate, diabasic, anhyd., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 7.65 - —
USP, dried powd., bgs., dms., works lb. .19 - .20¼
duohydrate, bgs., c.l., works. 100 lbs. 6.65 - —
l.c.l., works.....100 lbs. 7.05 - —
monobasic, anhyd., bgs., c.l., works 100 lbs. 8.05 - 8.50
l.c.l., works.....100 lbs. 8.45 - 8.70
tribasic, cryst., bgs., c.l., works, frt. equald 100 lbs. 4.05 - 5.30
l.c.l., same basis 100 lbs. 4.45 - 8.20
Sodium phosphates in bbls. 40c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots. lb. .13½- —
smaller lots.....lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.00 -10.75
ferric, dms., 1,500-lb. lots, works lb. .30 - —
smaller lots, works...lb. .31 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald..100 lbs. 7.50 - —
l.c.l., frt. equald..100 lbs. 7.90 - —
Sodium salicylate, USP, dms....lb. .63 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1....100 lbs. 3.85 - 4.25
zone 2.....100 lbs. 4.11 - 4.51
zone 3.....100 lbs. 4.40 - 4.70
zone 4.....100 lbs. 5.11 - 5.50

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss. south of 31° Tex E. of 100°; S. of 31° Fla.; also Me. N. H. and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport), Minn., Mo (except St. Louis) Neb., E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala. La. and Miss. No. of 31°; (3) Ark. W of 96° Kan. Neb W of 95°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

bbls., c.l., works 100 lbs. 2.45 - —
Sesquisilacate, anhy., dms., c.l., works 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 7.00 - —
hydrated bgs., c.l., works 100 lbs. 4.25 - —
l.c.l., bgs., works..100 lbs. 4.60 - 5.00
Silicate, liquid, 40° 1 to 3.2, turbid., dms., c.l., works 100 lbs. 1.25 - —
l.c.l., works..100 lbs. 1.60 - 2.00
tanks, works 100 lbs. .90 - .95
47° turbid., 1 to 2.9, dms., c.l., works..100 lbs. 1.80 -1.90
l.c.l., dms., works 100 lbs. 2.15 - 2.55
tanks, works.....100 lbs. 1.45 - 1.55
52°, turbid., 1 to 2.4, dms., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.45 - 2.85
tanks, works.....100 lbs. 1.75 - —
solid, bgs., works.....ton.52.50 -55.00
Silicofluoride, bgs., c.l., works lb. .070 - —
l.c.l., works.....lb. .075 - .07¾
Stannate, dms., works, frt. alld. E lb. .660 - .716
Stearate, tech., dms., works....lb. .43 - .44
USP, dms., works.....lb. .70 - .75
Sulphanilate, bbls., works.....lb. .22 - —
Sulphate, NF, VII, dried, gran., dms lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. allowance to $10. 100 lbs. 2.25 - —
l.c.l., works, same basis. 100 lbs. 2.50 3.00
cryst. (see Glauber's salt)
rayon grd., bgs., c.l., works. ton.27.00 - —
l.c.l., works.....ton.33.00 - —
USP, cryst., fib dms.....lb. .17½ .18
gran., fib dms.....lb. .17½- .18
Sulphide, flake, bbls., c.l., works, E., frt. equald.....ton.100.00 - —
l.c.l., same basis.....ton.108.00 - —
fused, bbls., c.l., works, E. frt equald ton.88.50 - —
l.c.l., same basis.....ton 96.50 - —
Sulphite anhyd., bgs., c.l., works. 100 lbs. 2.73 - —
l.c.l., same basis..100 lbs. 3.22 5.58
regular, cryst., bgs. c.l., works. 100 lbs. 4.80 - —
l.c.l., same basis 100 lbs. 5.20 6.45
powder, bbls., c.l., works 100 lbs 6.75 - —
l.c.l., works 100 lbs. 7.25 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls.....lb. No prices.
Sulphydrate, flake, 70-72%, dms., works, c.l...ton.115.00 - —
l.c.l., works ton.125.00 - —
liquid 34-40%, 100% basis, tanks, works ton100.00 117.60
Tetraborate (see Borax).
Tetrasulphide, liquid, 40%, dms., c.l., works lb. .03¼- —
l.c.l., works.....lb. .03¾- —
Thiocyanate, CP, dms.....lb. .55 - .65
tech., dms. works.....lb. .30 - —
Thiosulphate, NF cryst., bbls lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½- —
5 tons, works.....lb. .10¾- —
1 ton or less, works.....lb. .11 - —
Trichloroacetate 90%, 100-lb. dms., c.l., frt. alld., E lb. .37½- —
l.c.l., frt. adjusted, E lb. .39¼- —
50-lb. dms., c.l., frt. alld., E lb. .38 - —
l.c.l., frt. adjusted, E lb. .40 - —
10-lb. cns., c.l., frt. alld., E lb. .44 - —
l.c.l., frt. adjusted, E lb. .46 - —
Prices West of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 7.85 - —
l.c.l., same basis 100 lbs. 8.25 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works..100 lbs. 7.75 - —
l.c.l., works.....100 lbs. 8.50 - 8.90
dms., c.l., works....100 lbs. 8.15 - —
l.c.l., works.....100 lbs. 8.90 - 9.30
Tristearate fib. dms., 20,000 lbs. works lb. .33 - —
10,000 to 20,000 lbs., works lb. .35 - —
smaller lots, works lb. .38 - .40
Tungstate, tech., kgs., divd. E lb. 3.15 - —



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- Freeze-proofing Coal
- Industrial Waste Treatment
- Chemical Manufacturing
- Industrial Processing

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Soda Ash • Caustic Soda • Caustic Potash • Chlorine • Calcium Chloride
Potassium Carbonate • Sodium Bicarbonate • Specialty Cleansers • Sodium Nitrite
Ammonium Bicarbonate • Para-dichlorobenzene • Ortho-dichlorobenzene
Monochlorobenzene • Ammonium Chloride

Sodium Ammonium Phosphate—Testosterone, Propionate, USP

Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, c.l., dms., dlvd. lb. .25½- —
l.c.l., same basis lb .26 - —
Sodium sulpha, drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less than 1,000 lbs., same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum, 100°F., tanks, Baytown, Tex gal. .31 - —
Bayonne gal. .35 - —
150°F., flash, tanks, Baytown, Tex gal. .31 - —
Sorbitan monostearate, fib. dms., 20 000 lbs., works lb. .32 - —
10.000 to 20,000 lbs., works lb. .34 - —
smaller lots, works lb. .37 - .39
Sorbitol, cryst. pellets, dms., c.l., works lb. .30 - —
ton-lots to 5 tons, works lb. .32 - .33
powd., dms., ton lots to 5 tons, works lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works lb. .24¼- —
ton lots, works lb. .25 - —
less ton lots, works lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
less ton lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 41% bulk, Decatur, ton.76.00 -77.00
protein chemically isolated 40,000 to 60,000 lbs., dlvd lb. .23½- —
20,000 to 40,000 lbs., same basis lb. .23¾- —
100 to 20,000 lbs., same basis lb. .24¼- —
Soybean meal protein, mechanically refined, bgs., 40,000 lbs., same basis lb. .0605- —
20,000 lbs., same basis lb. .0620- —
smaller lots same basis lb. .0635- —
Sparteine sulphate, cns oz. .85 - 1.25
Spearmint leaves, bls lb. .60 - .65
Spikenard root, bls lb. .45 - .46
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd. super bgs., c.l., works. lb. .05½- —
l.c.l., works lb. .05¾- —
Squaw vine leaves, bls lb. .45 - .46
Squill red fortified powd., bbls. boxes lb. 1.60 - —
white, bls. lb. .12 - .15
powd., bbls., bxs lb. .18 - .21
St. John's bread edible, bls lb. .10 - 13
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y. 100 lbs. 7.14 - —
l.c.l. 100 lbs. 7.29 - —
powd., paper bgs., c.l. 100 lbs. 7.26 - —
l.c.l. 100 lbs. 7.32 - —

Prices for corn starch in cotton bags 25c. per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works lb. .06½ Nom.
Maine, bgs., c.l., works lb. No stocks.
l.c.l., spot lb. .11 - .12
imported, bgs, l.c.l lb. .09½- .10½
Rice, l.c.l., bgs lb. .15 - .17
Wheat, bgs lb. .0675- .0710
Stavesacre seed, bgs lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls lb. .30 - .31
Stoneroot, bls lb. .07½- .08
Storax, USP, cs lb. 1.25 - —
Stramonium leaves, bgs lb. .16 - .18
Streptomycin, either hyarochloride or sulphate, bulk gram. .24 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, 92%, dms lb. .23 - —
Chloride, tech., bbls lb. .24 - .26
Chromate, bbls., works lb. .46 - —
Iodide jars, 25-lb. lots lb. 3.37 - —
Nitrate, bbls., cs, works lb. .10¼- .11
Oxalate, bbls., works lb. No prices.
Salicylate, NF, dms lb. 1.65 - —
Sulphate, air floated, 90%, 325 mesh bgs., works ton.56.70 -66.15
Strontium-calcium sulphide phosphorescent, dms., works lb 2.80 2.85
Strophanthin, NF bots oz.25.00 -25.50
Strophanthus seed, Komba, biologically tested, bgs lb. 3.25 - —
Strychnine, NF, powd., cans, 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs oz. 1.14 - —
Sulphate, USP, powd., cans, 100 ozs oz. 1.00 - —
Styrene monomer, dms., c.l., works lb. .22¼- —
l.c.l., works lb. .23¼- —
tanks, works lb. .21 - —
Styrolyl acetate, bots lb. 1.47 - 1.75
Sucrose octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works lb. .71 - —

Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms lb. 4.00 - 4.50
Sodium, dms lb. 4.10 - 4.60
Sulphacetamide, fiber dms lb. 4.00 - 4.20
Sodium, fib. dms lb. 5.00 - 5.20
Sulphadiazin, USP, microcrystals, dms lb.10.60 -11.10
powder, dms lb.10.25 -10.75
Sulphadiazin-sodium, USP, dms lb.11.25 -11.75
micro crystals, dms lb.10.60 -11.10
Sulphaguanidin, USP, dms lb. 4.50 5.00
Sulphamerazin, USP, micro crystals, lb.10.65 -11.15
Sulphamerazin-sodium, USP, dms., lb.11.25 -11.75
Sulphamethazine, micro crystals, dms lb. 8.90 - 9.40
powder, dms lb. 8.50 - 9.00
Sulphanilamide, USP, 30-80 mesh, dms lb. 1.40 - 1.60
microcrystals, dms lb. 1.70 - 1.90
powder, dms lb. 1.30 - 1.50
Sulphanilamidoquinoxaline, veterinary, dms lb. 6.50 - 6.75
Sulphapyridin, NF powd. bots. tins. lb. 7.00 - 7.50
Sulphapyridin-sodium monohydrate, dms lb. 7.50 - 8.00
Sulphathiazole, USP, micro crystals, dms. lb. 3.15 - 3.30
powder, dms. lb. 2.80 - 2.95
Sulphathiazole-sodium, USP dms., lb. 2.80 - 2.95
Sulphur, commercial, flour, bgs., mines 100 lbs. 2.05 - —
bbls., mines 100 lbs. 2.20 - —
lump, bgs., mines 100 lbs. 1.70 - —
bbls., mines 100 lbs. 2.00 - —
crude, bulk, c.l., mines, contract, long ton.21.00 -22.00
f.o.b. vessels, Gulf ports, ex-port long ton.25.00 -27.50
domestic and Canada long ton.22.50 -23.50
refined, flowers, USP, bgs., mines 100 lbs. 2.60 - —
bbls. 100 lbs. 4.75 - —
flour, light, bgs., mines 100 lbs. 3.35 - —
bbls., mines 100 lbs. 4.25 - —
lump, bgs., mines 100 lbs. 2.90 - —
rolls, bgs., mines 100 lbs. 3.35 - —
bbls., mines 100 lbs. 3.80 - —
salt block, bgs., mines 100 lbs. 3.10 - —
virgin block bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular bgs., mines 100 lbs. 2.25 - —
bbls., mines 100 lbs. 2.40 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.25 - —
bbls., mines 100 lbs. 3.40 - —
refined, bgs., mines 100 lbs. 2.85 - —
bbls., mines 100 lbs. 2.95 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.85 - —
bbls., mines 100 lbs. 3.80 - —
10% pine tar, bgs. mines. 100 lbs. 3.65 - —
Dichloride, dms., c.l., works, frt. equald lb. .03½- —
washed, NF, bot lb. .11 - —
l.c.l., same basis lb. .04¼- —
tankcars, same basis lb. .03¼- —
Dioxide liquid, com'l, cyls., works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., l.c.l., dlvd. lb. .20 - .38
Monochloride, 55-gal. dms., c.l., frt. equald lb. .03½- —
l.c.l., same basis lb. .04¼- —
tanks, same basis lb. .03¼- —
Sumac leaf, 28%, bgs., ex-dock, short-ton.110.00 - —
ground, same basis ton.110.00 - —
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, Baito unit-ton. .86 - —
Carteret, N. J unit-ton. .86 - .88
triple, 48% or more, a.p.a. pulv., bulk, East Tampa, Fla unit-ton. .91 - —
Sweet basil, California, bgs lb. 1.05 - 1.10
imported, bgs. lb. .60 - .61

T

2,4,5-T, dms., c.l., works lb. 1.60 - —
l.c.l., works lb. 1.65 - —
Isopropyl ester dms. c.l., works. lb. 1.70 - —
l.c.l., works lb. 1.75 - —
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton.25.00 -35.00
Vermont off color, grd., bgs., c.l., works ton.14.00 - —
l.c.l., works ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works ton.25.00 -30.00
l.c.l. ton.28.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton.27.00 —
l.c.l., works ton.30.00 -32.00
99.95%, micronized, bgs., works, ton.36.00 - —
Imp. Canadian, grd., bgs., c.l., mines ton.15.25 -35.00
Tallow, edible, tanks, dlvd lb. .08 - —
inedible, extra lb. .05½- —
fancy lb. .05⅜- —
No. 1 lb. .04⅜- —
special lb. .05 - —
sulphonated, 25%, dms., l.c.l. lb. .06½- .07
50%, dms., c.l. lb. .09½- .10
Tamarind, W.I., bbls lb. .11 - .12
Tankage, animal, feeding, 9-11% ammo, bulk unit-ton. 7.50 - —
Chicago unit-ton. 8.50 - —
Tansy leaves, bls lb. .25 - .30
Tapioca flour, high grade, ex whse., bgs. lb. .14 - .15
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .50 - —
l.c.l., same basis gal. .52 - —
tanks, same basis gal. .40 - —
25-28%, dms., c.l., same basis, gal. .56½- —
l.c.l., same basis gal. .58½- —
tanks, same basis gal. .46½- —
50-53%, dms., c.l., same basis, gal. .72½- —
l.c.l., same basis gal. .74½- —
tanks, same basis gal. .62½- —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs lb. .45 - .50
Leaves, bgs lb. .65 - .70
Tartar emetic, tech., gran. or powd., bbls., kgs lb. .56 - .59
dms. lb. .57 - .60
USP, powd., bbls., dms., kgs lb. .61 - .62
Terpin hydrate com'l bbls., c.l lb. .24½- —
l.c.l. lb. .25 - .25½
NF, cryst., fib. dms lb. .70 - .80
powd., fib. dms lb. .75 - .85
Terpineol, alpha (see A).
commercial, dms., c.l., South lb. .13½- —
l.c.l., South lb. .14 - —
extra, dms lb. .48 - .60
prime, dms lb. .36 - .45
Terpinglycol ether, dms., c.l., works. lb. .23½- —
l.c.l. works lb. .25½- —
tanks, works lb. .22 - —
Terpinyl acetate, extra, cns., dms. lb. .55 - .70
prime, dms lb. .55 - .60
Propionate, dms lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. 1.80 - —
Propionate, USP, 100 gms., bots. gm. 1.90 - —

Hooker Chemical Guide (ONE OF A SERIES)
USE this handy reference to save time in selecting high quality chemicals.

HOOKER
SODIUM BENZOATE
BENZOIC ACID

A GRADE TO FIT YOUR NEEDS, USP OR TECHNICAL

SODIUM BENZOATE
USP and Technical

Synonym: Benzoate of Soda

Formula: C_6H_5COONa

Appearance: White, odorless, crystalline solid, sold in flake or powdered form.

TYPICAL PROPERTIES

USP GRADE

Molecular Weight 144.1
Sodium Benzoate ..... 99+%
Benzoic Acid ..... 0.2% max.
Water ..... 0.5% max.
Description: Meets all chemical and physical requirements of U.S. Pharmacopoeia XIV.

TECHNICAL GRADE

Molecular Weight 144.1
Sodium Benzoate ..... 98% min.
Benzoic Acid ..... 0.4% max.
Description: Does not quite meet the requirements of U.S. Pharmacopoeia XIV.

USES

Food Preservative: foods, fruit juices, syrups, margerine.

Antiseptic: pharmaceutical and cosmetic preparations, tooth paste.

Tobacco Curing

Corrosion Inhibitor: for glycol antifreeze solutions, solvent type metal cleaners, etc.

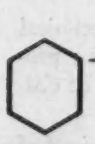
Chemical Intermediate: dyestuffs and pharmaceuticals.

BENZOIC ACID
USP and Technical

Synonyms: Benzenecarboxylic Acid
Phenylformic Acid

Formula: C_6H_5COOH

Appearance: White, crystalline solid, USP grade is available in powder form. Technical grade is available either in powder form or in the form of very small bead-like particles.



TYPICAL PROPERTIES

USP GRADE

Molecular Weight 122.1
Benzoic Acid ..... 99.3% min.
Water Content ..... 0.2% max.
Description: Meets all chemical and physical requirements of U.S. Pharmacopoeia XIV.

TECHNICAL GRADE

Molecular Weight 122.1
Benzoic Acid ..... 98.0% min.
Water Content ..... 0.2% max.
Description: Does not quite meet the chemical and physical requirements of U.S. Pharmacopoeia XIV.

USES

Chemical Intermediate: dyestuffs, perfumes, pharmaceuticals, benzoates, flattening agents for paint.

Preservative: for textile sizing, foods, cosmetic creams, lotions.

Antiseptic: for dentifrices and pharmaceuticals.

Tobacco Curing

Dyeing Assistant: for polyglycol terephthalate fibers (Dacron). Benzoic acid has a swelling effect on some of the new synthetic fibers. This gives better dye penetration with resulting level, long lasting color.

For detailed information on items listed, drop us a note on your letterhead. Address your request to HOOKER ELECTROCHEMICAL COMPANY, 1 Forty-Seventh Street, Niagara Falls, N. Y.

HOOKER ELECTROCHEMICAL COMPANY

NIAGARA FALLS, N. Y. • NEW YORK, N. Y.
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From the Salt of the Earth

HOOKER CHEMICALS

2-326

Tetrachloroethane, dms., works lb. .12½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. dms., works lb. .20½- .21½
smaller, dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Pyrophosphate, 40%, cns., dms., dlvd lb. .714 - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thalium metal, dlvd lb. 12.50 -15.00
Sulphate, 99%, bots., dlvd lb. 10.50 -13.00
Theobromine, fib. dms. lb. 3.75 - —
Salicylate, fib. dms lb. 4.25 - —
Sodio-salicylate, fib. dms lb. 3.10 - 3.15
With sodium acetate, USP, dms. lb. 3.80 - 3.85
Theophylline, anhydrous or USP, 100-lb. dms lb. 4.40 4.45
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms kilo. 160.00 - —
Mononitrate, USP, fib. dms kilo. 160.00 - —
Thiocarbanilide, dms lb .44 - .51
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. 1.99¾- —
l.c.l., same basis lb. 2.00 - —
Thiouracil, dms. works lb. 5.50 5.60
Thiourea, tech., dms., c.l., works lb. .43½- —
l.c.l., works lb. .45½- —
Thorium nitrate, cs. works lb. .60 - —
Threonine dextro laevo, bots., 1-kilo lots kilo. 600.00 - —
Thyme, French, bgs. lb. .20 - .21
Spanish, bls lb. .06 - .06½
Thymol, fib. dms lb. 3.25 3.30
Iodide, NF, dms lb. 6.80 - —
Timbo root (see Cube root).
Tin chloride, stannous anhyd., dms. works lb. .98½ .99½
Crystals, hydrous, bgs., bbls., works lb. .80¾- —
Metal lb. 1.21½- —
Oxide, dms lb. 1.23 1.24
Sulphate, stannous, bbls lb. 1.09 1.11
Tetrachloride, anhyd., dms., works lb. .89 .90
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd. lb. .21 .21½
l.c.l., dlvd lb. .22 .22½
regular, bgs., c.l., dlvd lb. .21 .21½
l.c.l., dlvd lb. .22 .22½
ceramic, bgs., c.l., dlvd lb. .21 .21½
l.c.l. dlvd lb. .22 .22½
metallurgical, natural granular, bgs., c.l., f.o.b. Jacksonville, Fla ton. 110.00 - —
c.l., Niagara Falls, N. Y. ton. 127.50 - —
5 tons, same basis ton. 132.50 - —
ton lots, same basis ton. 137.50 - —
(Milled, $7.50 per ton higher.)
rutile non-chalking, bgs., c.l., dlvd. E lb. .23 .23½
l.c.l., dlvd. E lb. .24 .24½
Hydride, cns., works lb. 7.95 9.00
Pigment, calcium-rutile, base, bgs., c.l. dlvd lb. .08 .08½
Titanium dioxide and pigment in bbls., ¼c. higher, Pac. coast, c.l., dlvd. L.c.l., ex whse., ½c. higher.
Tetrachloride, tech., dms., c.l., works lb. .45½-
l.c.l., works lb. .48½- .56½
tankcars, works lb. .44½- —
Tolidin base, distilled, kgs lb. 1.30 —
Tolu balsam, cns., dms lb. 3.85 - 4.85
Toluene (see Toluol).
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .30 - —
Chicago dist gal. .33 - —
Cleveland dist gal. .32¾- —
Geneva, Utah gal. .26 - —
Hamilton, Ohio gal. .32 - —
Johnstown Pa gal. .30 - —
Lackawanna, N. Y. gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo gal. .32 - —
Philadelphia Pa gal. .33½- —
Pittsburgh dist gal. .30 - —
Sparrow's Point, Md gal. .32 - —
Syracuse, N. Y gal. .30½- —
Terre Haute Ind gal. .33½- —
Wyandotte, Mich gal. .34¼- —
Youngstown Ohio gal. .30½- —
Petroleum, industrial, 2° tanks, works:—
Albany, N. Y gal. .33 - —
Bayonne, N. J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich. gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I gal. .33 - —
Wood River, Ill gal. .33 - —
Tonga, 50% bark and vine, bls lb. .60 - .65
Tonka beans Angostura, cks lb. 1.75 1.80
Brazilian, Surinam, cs lb. 1.10 - 1.25
Totaquine, 100-oz lots, cns oz. .42 —
Toxaphene, dms, c.l., works lb. .23 - —
truckloads, works lb. .23 - —
ton to truckloads, works lb. .26 - —
less than ton lots, works lb. .29 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .42¾- —
l.c.l., same basis lb. .43¾- .45½
tanks, same basis lb. .41 - —
Tributyl citrate, tech., dms., c.l lb. .40½- —
l.c.l. lb. .41½- —
tanks lb. .39 - —
Phosphate, dms., c.l., frt. alld lb. .51¾- .63½
l.c.l., same basis lb. .52¾- .64½
tanks lb. .50 - —
Tributylamine, dms., c.l., works, lb. .73½- —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene dms., c.l., works, frt. alld lb. .12½- —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .11 - —
Prices in the West 1¼c. higher.
Trichloroethane, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald lb. .11 - —
dlvd. E lb. .12½- —
l.c.l., works, frt. equald lb. .11½- —
dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10 - —
dlvd. E lb. .11 - —
Tricholine citrate, 65% solut., ret. chys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd lb. .33 - —
petroleum dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .26¼- —
l.c.l. same basis lb. .27¼- —
tanks, same basis lb. .24½- —
Triethylamine, dms., c.l., works, frt. alld. E. of Rockies lb. .45½- —
l.c.l., same basis lb. .46½- —
tanks, same basis lb. .43¾- —

Triethyl citrate, tech., dms., c.l lb. .27½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Phosphate dms., works, c.l. lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethyleneglycol, dms., c.l., dlvd. E. lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .48½- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald, 100% basis lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald., 100% basis lb. .33 - —
Tripentaerythritol, bgs., c.l., works. lb. .36½- —
l.c.l., same basis lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .37 - —
l.c.l., frt. equald lb. .38 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air floated, bgs., c.l., works. lb. .02 - —
double grd., bgs., c.l., works lb. .0185- —
single-grd., bgs., c.l., works lb. .0175- —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26½ - —
l.c.l., frt. alld lb. .27¼- —
tanks, frt. alld lb. .24½ - —
Trisodium fluoroacetate (see sodium fluoroacetate trihasic)
Trisodium phosphate (see Sodium phosphate tribasic).

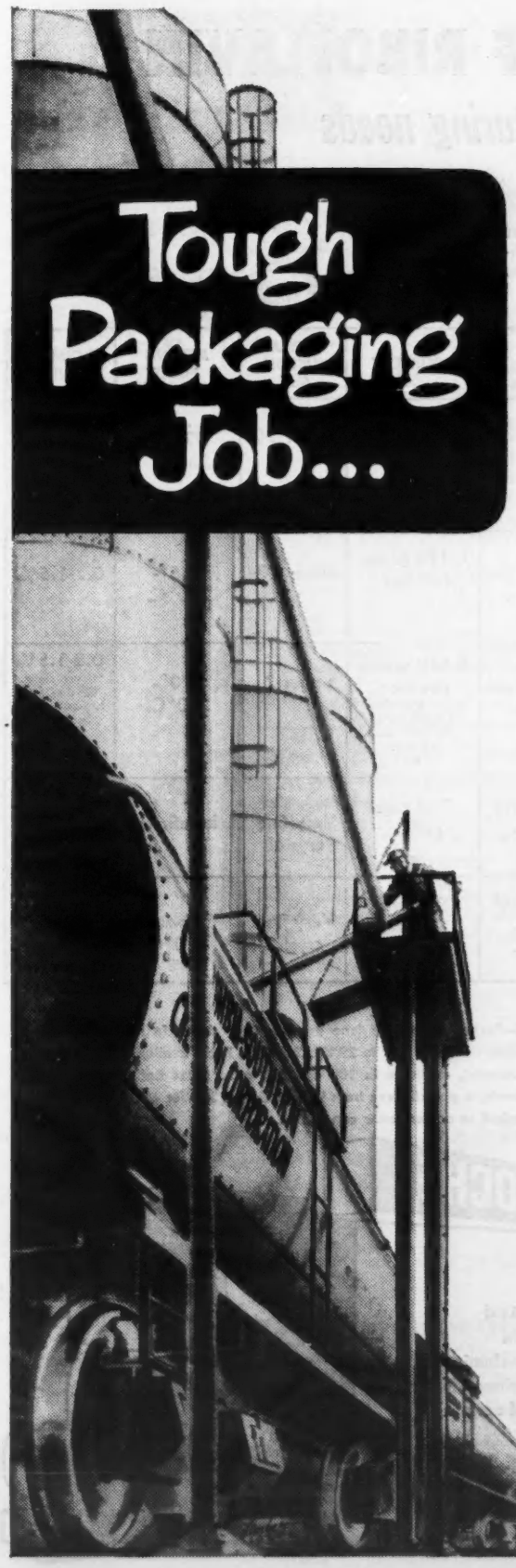
Trypsin, pharmaceutical, 1:80 dms., works lb. 4.00 - 5.50
Tryptophane, dextro-laevo, fib. ctns works kilo. 165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb 7.75 - —
Turmeric root, Alleppey, bgs. lb. .22 - .22½
Madras, bgs. lb. .13½- .14
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram 1.00 1.10

U

Urethane, USP dms lb. 1.50 - —
Unicorn root false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs lb 2.53 - —
yellow, kgs lb 1.65 - —
Urea, dom., 46%, N bgs., c.l., wks. lb. .05½- —
l.c.l., works lb .06 - —
44% N, bgs., c.l., 30 tons, frt alld, Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton. 142.00 - —
l.c.l., dlvd ton. 146.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va ton. 120.00 - —
C and D grades, tankcars, same basis ton. 118.50 - —
37 grade, tankcars, same basis ton. 147.50 —
Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, NF bls lb. .40 - .42
Valine dextro-laevo, dms. works lb 21.00 -27.50
Valonia, beards, 40-42% tannin, bgs., ex dock ton. 88.00 - —
cups 28-30% tannin, bgs. ex dock. ton. 67.00 - —
extract, powd., bgs., ex dock, duty extra lb. .09½- —
Vanadium pentoxide, CP bgs. cns. contract, works lb 7.00 —
tech., dms. works lb 1.20 1.33
Vanilla, beans, Bourbon, tins lb. 3.50 - 3.75
Mexican, cut's, tins lb. 3.50 - 3.75
whole, tins lb. 4.00 - 4.50
Tahiti cs lb. 3.00 Nom.
Vanillin, ex eugenol, tins, 25 lbs lb 6.75 —
smaller lots lb 6.90 7.25
ex guaiacol tins, 25 lbs lb 3.00 —
smaller lots lb 3.05 3.15
ex lignin, tins, 25 lb. lots lb 3.00 —
smaller lots tins lb 3.05 3.15
Vinyl acetate 55-gal. dms. c.l., works lb. .20¾- —
l.c.l., works lb .21¼- —
tanks, works lb. .19¾- —
butylether normal, tech., dms., c.l., works lb. .28 - —
l.c.l. works lb. .30 - —
tanks, works lb. .27 - —
Ether (see Ether divinyl).
Ethylether, tech., dms., c.l., works lb. .28 - —
l.c.l. works lb. .30 - —
tanks, works lb. .27 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
l.c.l. works lb. .30 - —
tanks, works lb .27 - —



TRANSPORTING caustic soda in liquid form involves exacting requirements. Liquid caustic must be insulated to keep it hot, especially when in its higher concentrations—73% solutions, for example, will solidify even in normal summer weather. It must be strongly encased—but since it reacts chemically with many substances, its purity must be protected against metallic contamination. Ease of loading and unloading liquid caustic and the safety of workers are also of prime consideration.

Columbia-Southern pioneered most of the developments which solved the major problems in this tough packaging job—which have enabled many companies to realize economic and processing advantages through the use of liquid caustic soda rather than solid. These achievements are among the numerous reasons why Columbia-Southern is one of the world's leading producers of alkalies, chlorine and other chemicals essential to industry.

THE "COLUMBIA" CAR—Columbia-Southern has been instrumental in the design and introduction of so many features of caustic soda tank cars that even prototypes of its own fleet are frequently referred to as "Columbia" cars. Among those developments which Columbia-Southern pioneered are the PATENTED LINING, which is caustic resistant and which first made practicable the shipment of 73% caustic without metallic contamination; the FUSION WELDED TANK, as applied to caustic cars, for greater strength and protection against leakage; IMPROVED INSULATION, including the use of fiber glass, for greater protection against freezing; EXTERIOR CHANNEL-TYPE HEATING COILS, for longer life and elimination of leak sources; LEAK-PROOF OUTLET VALVE for positive control.

COLUMBIA-SOUTHERN
CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY

EXECUTIVE OFFICES: Fifth Avenue at Bellefield, Pittsburgh 13, Pennsylvania
DISTRICT OFFICES: Boston, Charlotte, Chicago, Cincinnati, Cleveland, Dallas, Houston, Minneapolis, New Orleans, New York, Philadelphia, Pittsburgh, St. Louis, San Francisco

SODA ASH • CAUSTIC SODA • LIQUID CHLORINE • SODIUM BICARBONATE • CALCIUM CHLORIDE • MODIFIED SODAS • CAUSTIC POTASH • CHLORINATED BENZENES • MURIATIC ACID • HI-SIL • SILENE EF • CALCENE TM • CALCENE NC • PERCHLORETHYLENE

Vinyl Methylether—Yellow, Hansa

Vinyl methylether, cyls., works lb. .30 - —
tanks, works lb. .27 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Trichloride (see Trichloroethane).
Pyridin, ret. dms., works lb. 1.65 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm. bots., lots of 100 billion USP units, lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm 1,000,000 units. .17 - —
liquid, in oil, 1,000,000 A units per gm 1,000,000 units. .15 - —
natural, concentrates (see Oil, fishliver).
Palmitate, liquid, 1,000,000-1,800,000 A units per gm 1,000,000 units. .15 - —
in oil, 1,000,000 A units per gm 1,000,000 units. .15 - —
B, (see Thiamine hydrochloride).
B_2 (see Riboflavin).
Vitamin, B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12}, crystalline, gm. or 5 gm vials gram.295.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gm.225.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
D_2 (see Calciferol)
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_1, 25 gm. bots gram. 4.50 - —
Violet methyl toner (see Blue, methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls lb. 1.80 - 1.85
tree bark, bls lb. .75 - .90
Warfarin 0.5%, dms., 50 lb. lots, f.o.b. N. Y or Chicago lb. 1.95 - —
25-49 lb. lots, same basis lb. 2.05 - —
5-24 lb. lots, cns., same basis lb 2.15 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton.103.00 —
merchantable bgs., ex dock ton.99.00 -100.00
Wattle extract, liquid 35% tannin, bbls., works lb. .10¾- .11
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra, lb. .11 - —
S. Africa, 62% tannin, ex-dock, duty extra lb. .11⅛- —
Wax amorphous (see Wax microcrystalline).
Bayberry, bgs., spot lb. .55 Nom.
Bees, crude, African, bgs lb. .47 - .48
Brazilian, bgs lb. .70 Nom.
Central American lb. .54 - .55
refined, bleached, USP, bricks, lb. .69 - .71
slabs lb. .67 - .69
yellow, bricks lb. .60 - .62
slabs lb. .58 - .60
Candelilla, crude, bgs lb. .75 - .77
refined, bgs lb. .77 - .79
Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, bgs., ton lots, lb. No stocks.
North Country, No. 2, bgs., ton lots lb. No stocks.
No. 3, crude, bgs., ton lots lb. .94 - .95
refined, bgs., ton lots lb. .97 - .99
yellow, No. 1, bgs., ton lots lb. 1.24 - 1.26
No. 2, bgs., ton lots lb. 1.22 - 1.24
Powdered carnauba price differentials same as powdered candelilla.
Esparto, African lb. .80 - .82
Japan, bgs lb. .23 - .25
Microcrystalline, 170°-175° m.p., ASTM, amber ctns., 20,000, lbs. group 3, works lb. .13 - .14
Less than 20,000 lbs. same basis lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
Less than 20,000 lbs. same basis lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
less than 20,000 lbs. same basis lb. .25 - .26
Wax, microcrystalline, 180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
less than 20,000 lbs., same basis lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
less than 20,000 lbs lb. .15½- —
180°-185° m.p., ASTM, white, ctns., 20,000 lbs., same basis lb. .27 - —
less than 20,000 lbs., same basis lb. .28 - —
190°195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20 - —
less than 20,000 lbs., same basis lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
less than 20,000 lbs., same basis lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
less than 20,000 lbs., same basis lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
German, crude, bgs lb. .12½- .13½
Ouricury, ref., bgs lb. .73 - .74
Paraffin (see P).
Spermaceti, blocks, cs lb. .26 - .29
cakes, cs lb. .27 - .30
Sugar cane, crude, imp lb. .43 - —
ref., dom., works lb. .75 - .80
spot lb. .77¼- .82¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .17 - .18
White precipitate, USP powd., dms., lb. 5.00 - —
Whiting, limestone, dry-grd., 99.5%, 325 mesh bgs., c.l., works, ton 6.00 -10.00
smaller lots, works ton 6.50 -15.00
wet-grd., bgs., c.l., works ton.16.00 -30.00
smaller lots, works ton.21.00 -35.00
Paris white bgs., c.l. ton.24.00 -31.00
l.c.l. ton.25.00 -40.00
Precipitated, bgs., c.l. ton.18.00 -20.00
l.c.l. ton.25.00 -35.00
Wild cherry bark, thick, natural, bls lb. .06 - .07
thin, natural, bls lb. .47 - .19
rossed, bls lb. .19 - .22
Ginger (see Snake root, Canada)
Indigo root, bls lb. .30 - .31
Yam root, bls lb. .16 - .17
Witch hazel leaves, bls lb. .19 - .20
Woodflour 40 mesh bulk c.l., works, East ton.32.00 - —
l.c.l. same basis ton.36.80 - —
60 mesh, bulk, c.l., same basis ton.37.00 —
l.c.l. same basis ton 42.00 -55.00
80-100 mesh, bulk, c.l., same basis ton.45.00 -50.00
l.c.l. same basis ton.51.75 -57.50
Woodflour in bgs. extra, returnable.
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .14 - .16
Levant, bgs lb. 4.25 - 4.50
Wormwood leaves, bls lb. .35 - .45

X

Xanthorrhiza root, bls lb. .28 - .30
Xylene (see Xylol).
Xylenol, cryst., 56°-58°C. m.p., ret. dms., l.c.l., works, frt. equald. lb. .25 - —
45°-47°C., dms. c.l. same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7°C, b.r., except meta, dms. c.l. same basis. gal. 1.31 - —
l.c.l., same basis gal. 1.34 - —
tanks, same basis gal. 1.20 - —
meta fraction, over 7° C., dms., c.l. same basis gal. 1.46 - —
l.c.l., same basis gal. 1.49 - —
tanks, same basis gal. 1.35 - —
Xylidins, mixed, dms lb. .39 - .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa gal. .33 - —
Birmingham district gal. .30¼- —
Chicago district gal. .33½- —
Cleveland district gal. .33 - —
Geneva, Utah gal. .25 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .31 - —
Lackawanna, N. Y gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo gal. .34 - —
Philadelphia, Pa gal. .33 - —
Pittsburgh district gal. .30 - .33
Sparrows Point, Md gal. .33 - —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .34¼- —
Youngstown, O gal. .30½- —
Petroleum, indust., tanks, Albany, N. Y. gal. .33 - —
Bayonne, N J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I gal. .33 - —
Wood River, Ill gal. 33 - —

Y

Yara yara, cns lb. 2.25 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb. .52 - —
200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .35 - —
Barium chromate yellow price differentia in other States and city zones are those for chrome yellow below
Benzidin, AAA, bbls., dlvd lb. 1.91 - —
AAOT, bbls. lb. 2.06 - 2.15
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.20 - —
Cadmium yellows, Los Angeles, and San Francisco, ex whse. 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 G, bbls., same basis as chrome lb. 2.15 - —
G, pigment, bbls lb. 1.91 - —

Roche has 5 TYPES OF RIBOFLAVIN
for your manufacturing needs

The table below summarizes for quick reference helpful facts about the 5 types of Roche riboflavin. Samples of these products and technical brochure are available to you on request to the Vitamin Division.

TYPE & NAME	PROPERTIES AND USES	SOLUBILITY	CRYSTAL MICRON SIZE	MELTING POINT	MOISTURE CONTENT
Riboflavin U.S.P. ROCHE REGULAR	Density and low electrostatic properties provide easy handling in powdered dietary supplements, tablets, soft gelatin capsules and in dry enrichment premixes.	0.140-.200 gram per liter ◆	under 20	275°-280°C.	0.8-1.5%
Riboflavin U.S.P. ROCHE SOLUTIONS TYPE	For use in parenteral solutions which approach or slightly exceed the maximum solubility of B_2. Less likely to crystallize out.	0.120 gram per liter ◆	under 20	285°-290°C.	0.2-1.5%
Riboflavin U.S.P. ROCHE HI-SOL TYPE	A metastable crystal, dissolves fast in cold water forming high supersaturations of *indefinite* stability against crystallization. Preferred for certain types of oral liquid preparations.	0.120 gram per liter Supersaturations of 1.200 grams per liter are possible. ●	under 2	270°-280°C.	0.8-1.5% Hygroscopic. Caution must be used during handling to prevent moisture pick-up.
Riboflavin-5'-Phosphate Sodium — 'ROCHE' Theoretical B_2 content: 73% ROCHE product: 70-73%	For various types of oral and parenteral preparations requiring high solubility. Has less bitter taste than U.S.P. types.	112 mg. per cc. ■	Very fine crystal	Indefinite	Small percentage of water of crystallization.
Riboflavin-5'-Phosphate Diethanolamine—'ROCHE' Theoretical B_2 content: 63% ROCHE product: 61-63%	For various types of oral and parenteral preparations requiring high solubility. Has less bitter taste than U.S.P. types.	Exceeds 130 mg. per cc. ▲	Very fine crystal	About 200°C.	Small percentage of water of crystallization.

◆ In water at room temperature after shaking with excess for 24 hours.
● In water at room temperature after shaking with excess for 5 minutes.
■ In water at room temperature at pH 6.9. Solubility varies with pH as shown in the following table:

pH	Solubility
3.8	43 mg. per cc.
5.6	68 mg. per cc.

▲ At room temperature, at pH 5.0. Equivalent to 80 mg. of riboflavin.

PACKAGING—Packed in polyethylene bags in fibre drums in range of sizes as follows: ***Regular***, available in 1 to 20 Kg. ***Solutions Type***, available in 1 to 10 Kg. ***Hi-Sol*** (Hygroscopic), available in 100 and 500 gram glass bottles. ***5'-Phosphate Ester Compounds***, in polyethylene bags in fibre drums. Smaller quantities than those listed are packed in amber screw cap bottles.

Call ROCHE for vitamins

Vitamin A acetate and palmitate synthetic Ascorbic Acid
Sodium Ascorbate Panthenol Riboflavin Biotin
Riboflavin-5'-Phosphate Sodium Riboflavin-5'-Phosphate Diethanolamine
Thiamine hydrochloride Thiamine mononitrate Niacin Niacinamide
Pyridoxine hydrochloride *dl*-alpha-Tocopherol unesterified and acetate

VITAMIN DIVISION • HOFFMANN-LA ROCHE INC.
Nutley 10, N. J. • NUtley 2-5000
Pacific Coast distributors: L. H. BUTCHER COMPANY, San Francisco, Los Angeles, Seattle, Portland, Salt Lake City
In Canada: Hoffmann-La Roche, Ltd., Montreal, Que.

Yellow, iron oxide, natural, bgs., c.l., works	lb.	.0141-	.0250
l.c.l., works	lb.	.0166-	.0273
French type, bgs., c.l.	lb.	.04½-	—
l.c.l.	lb.	.04¾-	—
Peruvian type, bgs., c.l.	lb.	.0165-	—
pure, bgs., c.l., works	lb.	.10 -	—
l.c.l., works	lb.	.1025-	—
Mercury oxide, bbls., 1,000-lb. lots	lb.	4.15 -	—
smaller lots	lb.	4.17 -	—
Ocher American golden, bgs., works	lb.	.01¼-	.02¾
Zinc (chromate), bbls., dlvd.	lb.	.25 -	—
basic, dlvd.	lb.	.30 -	—
Yellow dock root, bls.	lb.	.18 -	.19
Yellow xanthorrhiza (see Xanthorrhiza)			
Yerba santa leaves, bls.	lb.	.32 -	.33
Yohimbine hydrochloride, bots., tins.	oz.	4.75	5.25

Z

Zein, bgs., 30,000 lbs. lots, works	lb.	.38 -	—
1,000-lb. to 30,000-lb. lots, works	lb.	.40 -	—
smaller lots, works	lb.	.43 -	—
Zinc acetate tech. bbls. dms. works.	lb.	.27 -	—
NF VIII, dms.	lb.	.33 -	—
Borate, bgs., c.l., dlvd. E	lb.	.192 -	—
l.c.l., dlvd. E	lb.	.202 -	—
Carbonate, tech., rubbermakers, bgs., c.l., works	lb.	.14½-	—
l.c.l., works	lb.	.15 -	—
Chloride, NF, gran., dms.	lb.	.42 -	—
precipitated, powd., dms.	lb.	.26 -	—
solution, 50%, dms., c.l., works. 100 lbs.		4.75 -	—
l.c.l., works 100 lbs.		5.35 -	—
tanks, works 100 lbs.		4.10 -	—
tech., fused, dms., c.l., works. 100 lbs.		9.60 -	—
l.c.l., works 100 lbs.		10.00 -	—
gran., fib., dms., c.l., works 100 lbs.		10.60 -	—
l.c.l., works 100 lbs.		11.00 -	—
Chromate (see Yellow zinc).			
Cyanide, kgs., over 1,000 lbs., works	lb.	.523 -	—
under 1,000 lbs., works	lb.	.543 -	—
Dust, pigment, bbls., c.l., works.	lb.	.16 -	—
l.c.l., works	lb.	.17 -	—
Fluoride, bbls., works	lb.	.40 -	—
Hydrosulphite, dms., c.l., frt. alld	lb.	.21½-	—
l.c.l.	lb.	.22 -	.37½
Iodide, NF, jars	lb.	4.92 -	—
Laurate, bbls.	lb.	.45	.46
Metal, slabs, E. St. Louis	lb.	.12½-	—
Naphthenate, liquid, 8% Zn, frt. alld	lb.	.23½-	—
10% Zn, dms., frt. alld	lb.	.28½-	—
Oleate, fused, bbls.	lb.	.36 -	—
Oxide, pigment, American process lead-free, bgs., c.l., dlvd.	lb.	.1425-	—
l.c.l., dlvd.	lb.	.1525-	—
leaded 35%, bgs., c.l., dlvd.	lb.	.1440-	—
l.c.l., dlvd.	lb.	.1540-	—
50%, bgs., c.l., dlvd.	lb.	.1450-	—
l.c.l., dlvd.	lb.	.1550-	—
French process, com'l green seal, bgs., c.l., dlvd.	lb.	.16 -	—
l.c.l., dlvd.	lb.	.17 -	—
red seal, bgs., c.l., dlvd.	lb.	.15½-	—
l.c.l., dlvd.	lb.	.16½-	—
white seal, bgs., c.l., dlvd.	lb.	.16½-	—
l.c.l., dlvd.	lb.	.17½-	—
USP, ctns., c.l., dlvd.	lb.	.17½-	—
l.c.l., dlvd.	lb.	.18½-	—
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¼c higher than bgs.			
Phenosulphonate, NF, gran., dms.	lb.	.39 -	—
powd., dms.	lb.	.42 -	.49
Resinate precip., dms., frt. alld.	lb.	.26¾-	—
	lb.	.26¾-	—
Silicofluoride, bbls., works	lb.	.12 -	.13
Stearate, tech., USP, ctns., c.l.	lb.	.37 -	—
ton, lots	lb.	.38 -	—
less ton lots	lb.	.39 -	—
Sulphate cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs.		7.30 -	—
l.c.l. same basis 100 lbs.		7.70 -	—
flake, 25½% Zn, bgs., c.l., works 100 lbs.		6.55 -	—
l.c.l., works 100 lbs.		6.90 -	—
powdered, 36% Zn, bgs., c.l., frt. alld 100 lbs.		9.25	9.95
l.c.l., same basis 100 lbs.		10.00	10.70
Zinc sulphate in bbls., 40c higher.			
USP, gran., dms.	lb.	.26	—
Sulphide, pure, bgs., c.l., dlvd.	lb.	.2530-	—
fluorescent, fib., dms., less than 1,000 lbs., works	lb.	1.10	1.90
phosphorescent, fib., dms., less than 1,000 lb. lots, works.	lb.	1.85	2.50
Undecylenate, dms.	lb.	2.25	2.50
Yellow (see Yellow, zinc).			
Zinc-ammonium chloride, bgs., c.l., works 100 lbs.		9.05 -	—
l.c.l., works 100 lbs.		9.45 -	—
Zinc-cadmium sulphide, fluorescent fib., dms., under 1,000 lbs., works	lb.	2.10	2.90
Zinc-calcium resinate, dms., c.l., works	lb.	.1180-	.1360
l.c.l., same basis	lb.	.1220-	.1400
Zinc-formaldehyde sulphoxylate, basic, dms. c.l.	lb.	.25½-	—
l.c.l.	lb.	.26 -	.41⅓
normal, dms., l.c.l., works	lb.	.52 -	—
Zircon, (G) granular, bgs., c.l., works	lb.	.03⅛-	—
5 tons to c.l., works	lb.	.03⅜-	—
1 ton to 9,999 lbs., works	lb.	.03⅜-	—
500 lbs. to 1,999 lbs. works.	lb.	.04 -	—
less than 500 lbs., works	lb.	.06½-	—
milled, bgs., c.l., works	lb.	.04⅛-	—
5 tons to c.l., works	lb.	.04⅜-	—
1 ton to 9,999 lbs., works	lb.	.04⅜-	—
500 lbs. to 1,999 lbs., works.	lb.	.05 -	—
less than 500 lbs., works	lb.	.07½-	—
Zircon (G) in barrels, ¼c. higher.			
Zirconium acetate 13% sol ZrO., c.l., 30,000 lbs., minimum	works lb.	.23 -	—
Carbonate basic, cake bbls.,	works lb	No prices.	
Hydride, cns., works	lb.	7.25	11.50
Nitrate, dms., ex whse.	lb.	4.50	7.00
Oxide 98½-99% white grd., bbls. or bgs., works	lb.	1.50 -	—
lump electric-fused, bgs., c.l., works	lb.	.44 -	—
5 tons, works	lb.	.44½-	—
1 ton to 9,999 lbs., works	lb.	.45 -	—
500 lbs. to 1,999 lbs., works	lb.	.45½-	—
lump, electric-fused, bgs., less than 500 lbs., works	lb.	.48 -	—
milled, electric-fused, bgs., c.l., works	lb.	.59 -	—
5 tons, works	lb.	.59½-	—
1 ton to 9,999 lbs., works	lb.	.60 -	—
500 lbs. to 1,999 lbs., works	lb.	.60½-	—
less than 500 lbs., works	lb.	.63 -	—
Oxychloride, cryst., ctns., 5 tons, works	lb.	.32½-	—

Growth via Research

—Continued from page 5

said, "lies in harvesting for the American people the fruits of scientific discovery. To do so is its particular province and its particular genius. Industry has become the principal instrument through which science for science's sake has become science for humanity's sake.

"All contributions to the betterment of man's condition have their origin in creative thought, whether they are concerned with the sciences, or with the arts, or with matters of the spirit," Mr. Greenewalt said. "But creative thinking, standing alone, may well be sterile—unless a way is found to make the knowledge of the few meaningful and beneficial to the many. That is essentially a problem in distribution, and devising the chain of communication to bridge that gap may well be as great a contribution to the elevation of man's estate as the creative thought itself."

Chemical Industry Contributions

He pointed out that the chemical industry, now fully grown, has advanced "both our national economy and our national security," adding that the "horizons extend far beyond the range of our immediate vision." But he warned that "our prospects for the future depend on a proper and harmonious compounding of fundamental and applied research," noting that fundamental research "will discover the new concepts" and that applied research "will synthesize out of them the goods and services that lead directly to our material prosperity."

"I doubt that there is any area in which there is greater need for self-sufficiency than in our contributions to fundamental knowledge," Mr. Greenewalt went on. "For many things we can find substitutes, but there is not now, nor will there ever be, a substitute for creative thought. It is unfortunate that the financial necessities of some of our universities appear to have driven them more and more into the field of sponsored and applied research. This is a disquieting trend, and I think it is one of industry's prime responsibilities to do what it can to reverse it."

Cites Individual's Role

Mr. Greenewalt stated that no matter how complex modern research may become, it "need never submerge the talents of the individual," adding that "whatever the reward of a creative individual, it is small compared to the national benefits that accrue from his work."

"Science does its best work in a free society," he concluded. "Industrial and academic science must be free to question old and embrace the new, to eliminate the wasteful and crown the efficient."

Borden Adds Steinebach

John G. Steinebach, formerly a foundry engineer for the Aluminum Company of America, at Cleveland, Ohio, has joined the foundry department of the Borden Company's chemical division. He becomes the Michigan state sales representative for Borden's foundry products, including core and shell bonding resins and core pastes and sprays. His headquarters will be in Birmingham, Mich. Mr. Steinebach had been with the Aluminum Company of America since 1949.

Trade Briefs

Monsanto Chemical Company's plant at Nitro, W. Va., has established a new company-wide safety record.

American Cyanamid Company's Calco Chemical Division has won the parent company's bronze plaque safety award.

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Volume 162 November 10, 1952 Number 19

Qualified for Leadership

In the judgment of three of its high-standing leaders, the chemical industry of the United States is "now ready for any national emergency that may arise." Their public expression of that opinion over the air is an encouraging detour from the all too prevalent foretelling of dark days to come. It is comforting to believe that those optimistic leaders are deserving of all the confidence which their opinion may engender among the leaders of all groups of business. It must be noted that, as the chemical industry has stated a purpose of spending $5,000,000,000 in expansion by the end of 1955, the developers and determiners of its policies do not see only black clouds on the industrial horizon.

Because the chemical industry must depend for the largest part of its prosperity on the requirements of other industries—including agriculture which is so commonly set apart from (manufacturing) industry by an "and" or an "or" in the designating of economic entities—there is more than a mere "I'm scared" in the views of those in the industry who are advising caution against overexpansion. If an epidemic of stagnation, spread by "unsterilized" word of mouth, falls upon the business of this country, the chemical industry cannot be expected to have some sort of particular immunity. The presentation of views such as those stated by that industry's leaders can and will do much to "vaccinate" businessmen against the "black plague" which can assume an infectious nature by way of a possible unduly predominant uttering of calamity fears. The faith—and hope—of the chemical leaders must be instilled in all other industrial groups.

It is encouraging to hear one of the optimistic chemical leaders say that "the civilian economy requires new chemical plants to bring the new and improved products of chemical research to the public." But, as noted above, the service of the chemical industry to the public must flow through many other industrial channels. Those, also, must be kept free from clogging, pessimistic lack of self-confidence. Unquestionably, as one of the speakers said "leadership in chemistry and chemical engineering now is really a keystone in the industrial strength of the United States." But, important as is the keystone, it is not, by any means, the complete and necessary structure. That leadership must be spread into all other industrial groups, and its major characteristic must be of broader than technical scope. It is not, in these days of universal change, enough that any industrial group be competent to deal with technical problems; the weight of social problems and of political problems—"programs" may be a more pertinent term in both areas—has become such an influential factor that business must be able to deal adequately with their many aspects, a great part of which lend themselves to no reasonable, logical, or scientific approach or concept.

It is good that business have faith in its ability to meet the future—and it is necessary. But, the future must be known as far as such prescience is possible. There is no sound analogy between the fact that the prophets of business gloom were wrong six years ago and the cautionary advice which today has the middle road. It is not to be expected, certainly not to be desired, that the inordinate demands which have largely supported industrial activity in the past five years will serve a similar purpose in the coming five.

All business must get together, study the future as an era of its making and work together to make it what is best for everybody. Because of its commendable measure of self-confidence and by reason of its essential relationship to all other industries, the chemical industry should take the lead in a movement for that cooperation.

Because the Dollar Is Cheap

The Director of Price Stabilization has told the President that there is a need for a stronger price-control law. His opinion in that respect derives from conferences in ten cities with groups of housewives. Nobody with any knowledge of the views expressed in those quarters can logically feel that any other conclusion could be possible. It will surprise nobody that the director says he found housewives greatly concerned about rising prices. All will be ready to agree with them in their reported belief that price controls are not very effective, whatever may be the attitude toward their sentiment that the controls are doing some good. There is much room for argument, however, on the women's belief that the weakness in controls is owing to weakness in the law. The biggest weakness is, of course, statutorial: costs are not controlled. But, the law would do much more good (for the consumer) if it were equitably and adequately enforced.

It is not difficult to see why the housewives' complaints, as the director heard them, had to do to the extent of 90 percent with costs of food. Although declines in food prices brought the cost of living index down in October, for the first time in eight months, while other items were raised, housewives must buy food. They have substantially reduced their other purchasing—a fact which apparently is not realized by those who are puzzled over the declining sales in various lines. As food prices are largely not under control and because they have a floor in many places in the way of support for farm prices—the prices of fruits and vegetables have never been controlled at the farm level—it is difficult to see why controls should be considered necessary. That, of course, is a theoretical condition, with some sort of "law" of supply and demand at work. As a rule, when controls have been lifted in other than food areas, the same "law" or some other one—not theoretical—has effected, or at least abetted an upward price movement.

It is time that theories of "pure" economics and processes of political economics were laid aside and some plain, simple talking was done to the consuming public. Even those who talk about it all the time, for the most part have no clear or accurate idea of what is inflation. As for knowledge of its genesis—? ? ?

Prices are high because the dollar is cheap. The basic reason why the dollar is cheap is that it costs so little. Oh, yes, all those things about government extravagance have some effect; but that is secondary. At the bottom is this:—Fifty years ago, an hour's work by a skilled artisan "bought" on an average 25 cents. Today, in the same areas, it will buy six, eight, ten, or more times that many cents—and it cannot be said of itself to have increased any in quantitative or qualitative value over those years. So, in terms of human effort, which is man's capital, the dollar today is cheap indeed.

In accordance with what might properly be called a "natural" economic law, the selling price of the dollar has followed the trend of its cost. Fifty years ago, the artisan could "sell" any dollar he desired to dispose of for at least 5 pounds of beef, a dozen quarts of milk, or eight dozen eggs. Today—! ! !

The selling price of the dollar has not decreased as much as its cost—but under the "higher standard" of living, there are so many new things to buy. In the horse and buggy days not everybody had to have a horse and buggy and there was no "social necessity" that there be an organ or a piano in every parlor.

If prices are to be controlled effectively, there will have to be a lot of controlling in a lot of other places, chief among which is in the maintaining of the value of the dollar in terms of what is given for it all along the line.

For the Bookshelf

SAFFLOWER—Agronomic, Processing and Economic Data Bulletin No. 210 of Washington State Institute of Technology Division of Industrial Research. Paper; 22 pages, 8½x11 in. Pullman, Wash.: State College of Washington.

Safflower has attained a sizable economic status in the relatively few years since it was a minor drug-store item for the making of saffron tea, a home remedy in measles and other childhood ailments. Today it is among the major oilseed crops.

This bulletin tells how to cultivate safflower and how to put it though the various stages of producing a useful oil. Its data are directly applicable to the State of Washington, but they are informatively useful in other parts of this country. They are mainly presented in two groups, one dealing with safflower farming; the other with the processing of the seed for oil. The agronomic aspects are tinged with more than a little difficulty. But, the safflower crop is a promising one economically insofar as the data available from its comparatively short history are informative.

GEOLOGICAL INVESTIGATIONS OF CHROMITE IN CALIFORNIA. Bulletin 134, Department of Natural Resources, State of California; part I, 2 chapters; part II, 1 chapter; part III, 4 chapters. Paper; 332 pages, 6x9 in. San Francisco: Division of Mines, Ferry building.

Each of the seven chapters of this bulletin is separately bound; each has to do with a definite area. All relate to work of members of the staff of the United States Geological Survey. Each chapter is supplemented with appropriate maps, folded in a packet on the inside back cover.

The subject of these reports is one of steadily growing interest, chemically and metallurgically, in the United States. Because of the development of metallurgical processes which make commercially practicable the utilization of low-grade ores, data on resources have taken on a new usefulness. These reports on California chromite have a place in relation to today's needs with reference to national resources.

Washington Talks

—Continued from page 5

manager of industrial relations for the Union Carbide & Carbon Corporation, was recently designated an industry member to fill a position vacated by Dudley M. Mason, who has resumed his duties as director of personnel research for the Armstrong Cork Company.

Food Costs Outlook

Don't look for any relief from the high costs of food next year. Agriculture department experts are predicting that retail prices of food will average about the same in 1953 as in 1952, and supplies will be at least as large as in the past three years—weather permitting, of course.

Looking ahead into 1953, we may expect some increases in civilian consumption per capita over 1952 rates for beef and veal; chicken; margarine; frozen fruits, fruit juices, and vegetables; fresh vegetables; and sweet potatoes. These increases will be countered by somewhat lower rates of consumption for pork, eggs, turkey, and butter.

One of the interesting facts concerning food consumption is the trend away from butter and in favor of margarine. Butter consumption is expected to decline to a new low of 8.6 pounds per capita in 1952-53, and for the first time in history almost as much margarine as butter will be consumed.

REA Progress Report

The Rural Electrification Administration, which was one of the earliest of the New Deal agencies for the social and economic betterment of the agricultural areas of the country, would practically be out of work now but for the fact that it took on another major program a year or so ago—that of providing telephone service to the rural areas.

REA estimates that 88.1 percent of all the farms in the country are now electrified, whereas in 1935, when the program of rural electrification was first undertaken, only 10.9 percent of the farms were electrified. In numbers, this means that there are now 4,740,800 farms connected to power lines and only 641,285 are unconnected.

At last year's rate of electrification, it would only take three years to bring all farms within the rural electrification program. Over 200,000 connections were made in the fiscal year that ended June 30. Twenty-six states, led by Michigan, with a percentage of 98.9 percent and Indiana with 97.9 percent, are above the national average of 88.1 percent.

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*Growth Failure In School Children—Further Studies of Vitamin B_{12} Dietary Supplements. By: Wetzel, N.C., Hopwood, H. H., Kuechle, M. E., Grueninger, R. M.: Journal of Clinical Nutrition 1:17, September-October 1952. For copies of this study, write:

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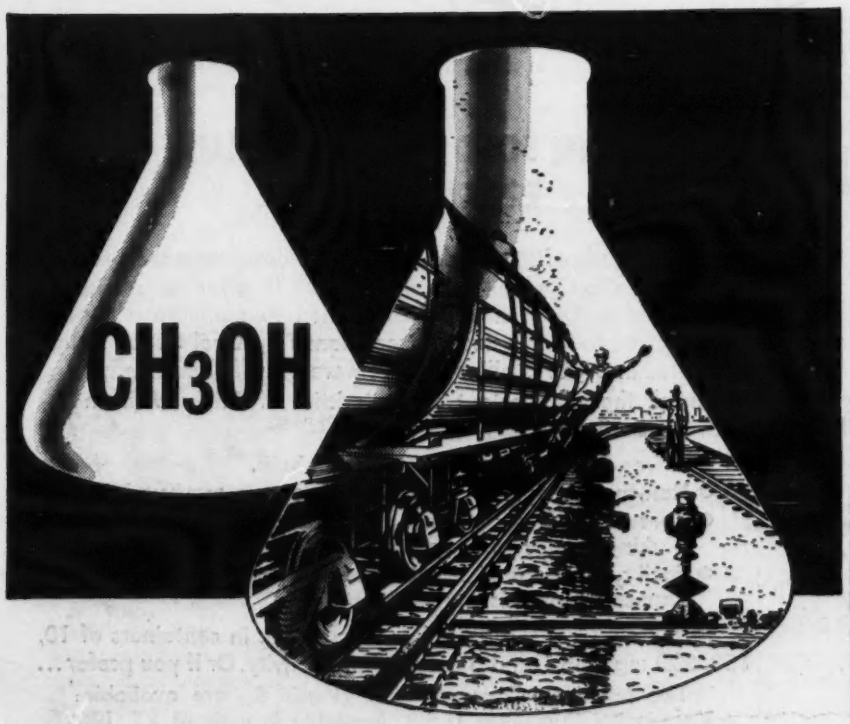

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Heavy Chemicals

Metallic lead was advanced in price last week. The uplift was attributed to increased domestic demand, reduced lead inventories and higher prices on the London Metal Exchange. Antimony metal prices were reduced sharply. The decline was the first price change since last May. Foreign competition and slow domestic demand accounted for the downward revision. The government has cut 85,000 tons of zinc from its expansion goal. The new target envisions a supply of 1,245,000 tons of zinc in 1956. A large consumer of copper asserted that price controls may be taken off by the first of the year. The DC will license 8,000,000 pounds of aluminum for export in the first quarter of 1953. This is the same amount licensed for export during the last quarter of this year.

NPA has revoked the sulphur use limitation order because of the increased sulphur supply. The strike at the big Corpus Christi alkali plant has been settled and production resumed after a shut-down of several weeks. Supplies of chlorine, caustic soda and soda ash are now about in balance. Phosphorus production has been seriously curtailed at some western plants by lack of power occasioned by low water resulting from the prolonged drought. The dry spell has also extended the highway dusting season and kept calcium chloride rolling for both dust and ice control. Sodium antimoniate prices have not been changed although the market's background has been weakened by the sharp decline in the quotation for antimony metal.

Paper production based on a percentage of six-day capacity was 90.5 percent for American Paper and Pulp Association. This compared with 92.4R in the preceding week and 100.1 for the corresponding week in 1951.

Production figures below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce and the Chemical Division of the Tariff Com- of six-day capacity was 96.2 percent for *mission.*

Aluminum Chloride—Finding a steady outlet for catalystic use. Stocks not excessive but meeting current requirements. August production of anhydrous was placed at 2,110 tons, compared with a revised total of 1,758 in July and 3,131 tons in August last year. Output of liquid and crystal was 1,501 tons in August, against 1,555 in the preceding month and 1,502 tons in August 1951.

Ammonia, Anhydrous — Production of synthetic increased substantially in August. The total amounted to 173,326 tons, compared with 167,574 in July and 146,664 tons in August last year.

Arsenic—Market conditions in white powdered remained relatively quiet with shipments confined mostly to glass plants. Stocks adequate to meet demand with former prices still current.

Calcium Carbide—No shortage of stocks at present. Demand fair but not urgent. Standard generator size drums priced at $134.40 per ton, carlots delivered. August production is placed at 45,812 tons of commercial, compared with 52,238 in July and 68,170 tons in August 1951.

Calcium Chloride—Buying interest active with municipalities taking on stocks for winter ice control. Supplies not excessive but meeting requirements in most instances.

Carbon Bisulphide—Supply and demand maintaining a satisfactory degree of balance. August production amounted to 37,787,032 pounds, compared with 35,269,199 in July and 41,807,243 in August last year.

Carbon Tetrachloride — Consuming demand fair with stocks adequate to meet requirements. August production was placed at 14,191,703 pounds, compared with 12,664,405 in the preceding month and 16,576,067 pounds in August 1951.

Chlorine — Demand sustained at its former level with supply position comfortable. Settlement of a strike at an important plant has improved the supply outlook. August output of chlorine gas placed at 208,098 tons, compared with 194,285 in July and 215,729 tons in August last year.

Cobalt Carbonate—August production was placed at 4,348 pounds gross weight, shipments amounted to 7,687 pounds and stocks on August 31 were 11,651 pounds, compared with 14,990 on July 31, according to the Bureau of Mines.

Copper Sulphate—Agriculture inquiry from the citrus fruit area has not shown the expansion expected for this period of the year. Industrial demand has fallen off from some of the mining plants but otherwise is good. Export inquiry has continued to broaden both from Europ. and South American countries. Stocks ar increasing and immediate shipments have remained available. Prices are firm and will be guided by the course of the copper metal market.

Fluorspar—Consumption in the United States in August was the third largest and was only 4 percent less than the all-time monthly high in March, 1952, according to the Bureau of Mines. Usage of fluorspar at hydrofluoric acid plants was the second highest. Production and shipments of domestic and imported fluorspar were at substantially higher rates than in July. Stocks at consumers' plants reached the unprecedented total of 215,000 tons on August 31. Initial shipments of the acid grade concentrates were made from a new flotation mill at Northgate, Colorado, which began operating in July. Usage of fluorspar at steel, hydrofluoric-acid, glass, enamel, and ferro-alloy plants, magnesium smelters, and in welding-rod coating was larger in August than in July, but these gains were partly offset by smaller consumption at aluminum-reduction plants and iron foundries.

Lime—Domestic sales of open-market lime were 691,948 short tons during the month of August, the highest during the year, according to reports of producers to the Bureau of Mines. Sales of dead-burned dolomite increased threefold in August due to the cessation of the steel strike which adversely affected sales in June and July. The breakdown for uses was 20,219 tons for agricultural, 105,703 for building and 389,315 tons for chemical and other industrial requirements. The total use for July was 472,565 tons. From January through June this year there were 2,202,278 tons used. The amount of dead-burned dolomite used in August was 176,711 tons, compared with 59,018 in July.

Potash, Caustic—Sales volume in October was probably at the highest level of the year. The increased demand brought producers' inventories down and in some instances there were slight delays in shipments. Output has since been stepped up and the current market is in a fully balanced condition.

Potassium Carbonate—Market conditions have closely followed the pattern set by caustic potash. Increased demand from glass plants brought down available stocks temporarily but there is no shortage at present and immediate shipments are obtainable.

Potassium Chlorate—Moderate expansion in sales was reported but the supply position has not been impaired. Match factories are taking on stocks for current requirements.

Potassium Stannate—Some pickup in the plating industry is reflected in an improved demand for this tin chemical. There is no shortage of stocks and immediate shipments of both large and small quantities are readily available.

Soda Ash—Labor difficulties at the Corpus Christi plant have been settled and production has been resumed. This removes a disturbing factor from the supply picture. Demand has continued active. Light ash was reported in balance with dense showing slight delays in shipment from some producing points but no serious shortage.

Soda, Caustic—Resumption of activity at the big Corpus Christi plant was the most favorable development noted last week. There was a good demand for liquid caustic with no delays reported in shipments. Some falling off in demand for dry caustic was reported for oil well drilling where the prolonged drought has curtailed operations.

Sodium Antimoniate—No change in prices was announced last week although the trade is expecting a downward revision. The market's background has been weakened by a substantial drop in the price of antimony.

Sodium Phosphate—Production of monobasic during August amounted to 1,497

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Lead metal, ½c. per lb.

Prices Reduced

Antimony metal, 4½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
95.13	95.13	95.13	96.94

(*For Current Prices see Page 9*)

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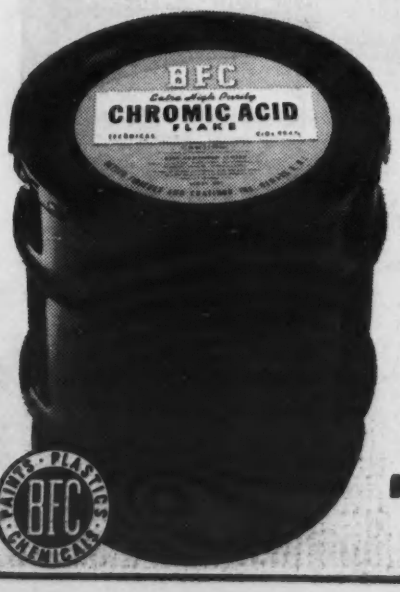

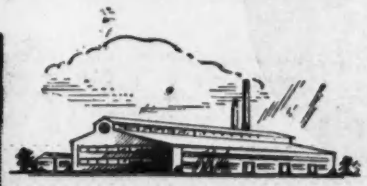

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tons, compared with 1,566 in July and 1,799 tons in August 1951. The dibasic output in August was 15,073 tons, against 12,696 in the preceding month and 15,996 tons in August last year. Production of tribasic in August was 4,259 tons, compared with 4,214 in July and 5,528 tons in August 1951.

Sulphur—Mine shipments of native sulphur during September were placed at 409,626 long tons by the Bureau of Mines. August shipments totaled 453,625 long tons. Apparent sales in September amounted to 395,117 long tons, compared with 382,221 in the preceding month. Shipments of recovered sulphur amounted to 29,551 long tons in September, against 29,691 in August and apparent sales were 29,599 long tons in September compared with 29,580 in the previous month.

NPA has revoked the sulphur use limitation order M-69 because of the improved supply situation. Since October 21, NPA has been granting any and all requests for sulphur for any purpose. (Story elsewhere in this issue.)

Acids

Acetic—Producers are maintaining former prices on glacial. Slight increase in demand is noted for textile use. August production of acetic acid amounted to 31,172,764 pounds, compared with 32,355,185 in July and 41,875,739 pounds in August last year. The natural output in August was 1,806,000 pounds, against 1,901,000 in the preceding month and 1,891,000 pounds in August, 1951.

Formic—Sales have increased for textile use with production maintained to keep stocks available. August production amounted to 848,553 pounds, compared with 624,857 in July and 1,083,803 pounds in August, 1951.

Hydrofluoric—Market position firm with supply and demand about in balance. August production of anhydrous and technical amounted to 3,612 tons, compared with 2,864 tons in July and 3,679 tons in August, 1951.

Muriatic—Supply conditions showed slight improvement with demand good. Production during August totaled 54,839 tons including 13,417 tons made from salt and acid, 13,187 from chlorine and hydrogen and 28,235 tons as byproduct and from other sources. July output was 49,282 tons and in August last year 56,005 tons were produced.

Nitric—Production increased during August. The total stood at 128,886 tons, compared with 118,340 tons in the preceding month and 123,996 tons in August, 1951.

Oxalic—Slight increase in demand for small lots has been readily leveled off from producers' inventories. August output amounted to 910,978 pounds, compared with 1,437,274 pounds in July and 1,581,177 pounds in August last year.

Sulphuric—Demand active with stocks adequate to meet requirements. August production was placed at 1,066,123 tons, including 204,318 tons made by the chamber process and 861,803 by the contact process. The total output for July was 968,467 tons and in August last year 1,074,257 tons were produced. The amount of spent acid used in fortification was 76,049 tons in August, against 78,548 in July and 84,218 tons in August, 1951.

Nonferrous Metals

Aluminum—During September domestic production of primary aluminum decreased 10 percent, compared with August, from 85,175 tons to 76,882 tons according to the Bureau of Mines. Due to dry weather conditions in the Pacific northwest. The Bonneville Power Administration announced suspension of 388,000 kilowatts of interruptible power resulting in an estimated daily loss of 790,000 pounds of pri-

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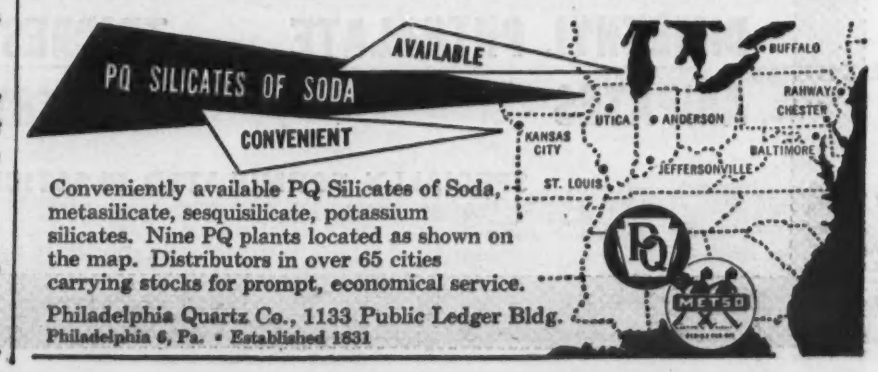

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Nat'l Starch Assistant V. P.

Dr. Carlyle G. Caldwell has been elected an assistant vice-president of National Starch Products, Inc., New York. Dr. Caldwell, an authority on starches, adhesives and resins, joined National's research staff in 1940, and has been research director since 1948.

mary aluminum metal. The new reduction plant at Wenatchee, Washington, with a rated annual capacity of 85,000 tons was officially dedicated September 13. However, a small tonnage was produced in June. Two of four potlines have been completed.

Antimony—Priced lower at 34½c. per pound in bulk f.o.b. works and 35c. in cases. This is the first fluctuation since last May. Slow demand and lower prices for foreign metal were the principal causes for the downward revision. Bureau of Mines states that imports in August increased nearly 29 percent and totalled 1,014 short tons. Of total imports, 59 percent was in the form of ore and concentrates, 39 percent in the form of metal and the remainder in the form of oxide. The 397 tons of metal imported were the highest recorded in 1952 whereas the 17 tons of antimony oxide were the lowest for the year. Exports during August were nil.

Cobalt—Consumption of cobalt in August was 26 percent greater than in July and was the largest since March 1952, according to the Bureau of Mines. Consumption was 810,487 pounds in August. The gain resulted chiefly from greater utilization of cobalt in cobalt-chromium-tungsten-molybdenum alloys and magnet alloys. Production of cobalt metal in the United States was 8 percent more in August than in July but imports declined 28 percent; sales were down 47 percent. Production of cobalt oxide increased 9 percent but imports and sales declined 50 and 25 percent, respectively. Production and shipment of salts declined 26 and 17 percent, respectively. Output of driers increased 21 percent but shipments dropped 9 percent. Production and shipments (cobalt content) of cobalt concentrates were 154,407 and 287,355 pounds, respectively, in August compared with 70,364 pounds production and no shipments in July.

Copper—Department of Commerce has announced that first quarter 1953 export quota for copper and copper-base alloy produced totals 12,136,000 pounds. The initial fourth quarter quota this year was 10,320,000 pounds, but officials have since raised the total to 12,650,000 pounds to be exported in this quarter.

Mine production of copper fell 4 percent to 72,998 tons in August, but overall domestic supplies rose 19 percent, continuing the improvement noted in July, according to the Bureau of Mines. Total crude and refined imports were 8 percent larger than in July, were 48 percent higher than the average rate for the first six months of 1952, and the greatest since December 1950. Stocks accumulated in Chile before United States price ceilings on foreign copper were lifted permitted above average import rates in July and August and doubtless contributed likewise to abnormal imports in September. The Defense Production Administration in August moved copper from List I, most critical, to List II, approximate balance, materials. Increased availability of copper in August, because of expanded imports, made possible the highest consumption rate since January 1952. Wire mills used more copper than in any month since October 1951 and brass mills the most since January 1952.

Lead—Downward tendency of the market was reversed last week when the price was advanced ½c. to 14c. New York and .1380 at St. Louis. The market responded

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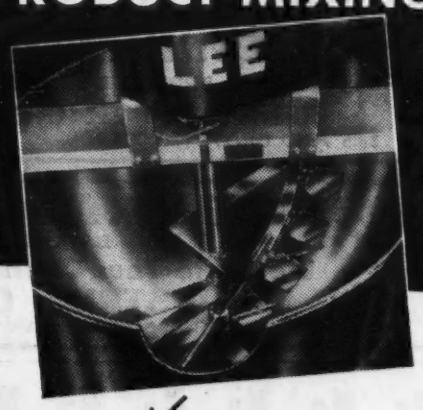

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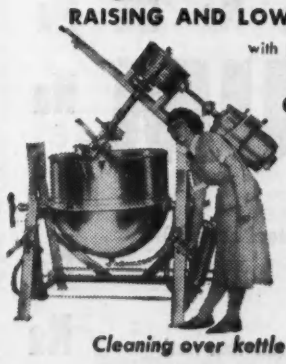

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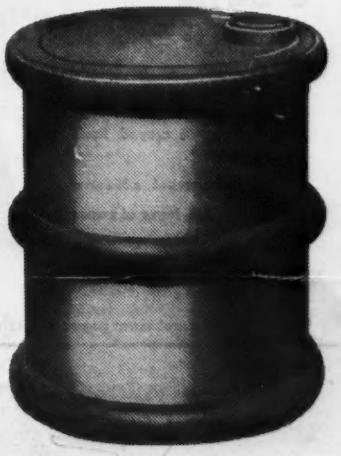

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Nickel—Consumption and imports of nickel in August were 90 and 30 percent, respectively, larger than in July, according to the Bureau of Mines. Consumption of nickel in the United States by 148 companies which accounted for about 95 percent of the nickel in all forms used in 1951 was 16,358,486 pounds in August, which indicates that total consumption was 17,2i9,000 pounds compared with 9,076,000 pounds in July. Imports of nickel into the United States in August comprised 10,654,700 pounds of metal, 2,978,269 pounds of matte, 1,795,888 pounds of oxide and oxide sinter, and 70,210 pounds of scrap from Canada; 532,521 pounds of metal from Norway; 3,102,994 pounds of oxide from Cuba; and 131,460 pounds of scrap from United Kingdom. The nickel content of the new metal, oxide, oxide sinter, and matte imported into the United States is estimated at 18,726,000 pounds in August, compared with 14,423,000 pounds in July.

Quicksilver—Prices firm at $195 to $196 per flask for spot material. The market has developed a stronger tone with no apparent easement in the supply position. Trading has been confined mostly to current wants of consumers.

San Francisco.—Inquiry was reported as moderate over the week with stocks continuing limited and quotations unchanged at $195 per flask.

Zinc—Reports from western points note that production at some mines is being affected by loss of power resulting from the prolonged drought. Buying interest was not unusually active in the local market for spot prime western. The tone, however, appeared stronger with future shipments showing an upward slant in prices. The advance in the price of lead also contributed a strengthening influence to the zinc market.

Chase Bag Co. Names Farnham, Foster, Floyd

The Chase Bag Company, Chicago, has announced the appointments of Ralph Farnham as southern promotion manager, Edson E. Foster as advertising and sales promotion manager and James F. Floyd as salesman in the Orlando, Fla., district.

Mr. Farnham had been manager of the Orlando branch and previously was a salesman in the New Orleans, La., area. Mr. Foster was previously with the Illinois Bell Telephone Company and the Kemper Insurance Company. Mr. Floyd was Orlando office manager before his present appointment.

Reichhold Appoints Gow Textile Div. Sales Mgr.

Reichhold Chemicals, Inc., New York, has announced the appointment of Robert Gow as sales manager of the firm's newly-created textile division, with offices at Charlotte, N. C.

Prior to joining Reichhold, Mr. Gow was engaged in sales development of synthetic resins for textile finishing and sizing with Monsanto Chemical Company, St. Louis, Mo., for seven years. Prior to wartime service with the Army Air Force, he was associated with Lanett Bleachery & Dyeworks, West Point, Ga.

Detrex Offers Washers Data

An eight-page, three-color booklet which describes in detail its complete line of industrial washers is offered by the Detrex Corporation, Box 501, Detroit 32, Mich. The booklet is illustrated with actual photographs of equipment ranging from single-stage, totally enclosed cabinet washers to five-stage phosphate coating and paint bonding machines.

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Cyanamid New Orleans Plant Assignments to Two

Announcement of two appointments to the management of American Cyanamid Company's plant now under construction near New Orleans, La., was made today by G. J. Forney, plant manager. They are R. L. Hock as assistant manager, and V. E. MacDonell as chief engineer.

Mr. Hock, had been with the U. S. Industrial Chemicals Company for twenty-eight years before joining Cyanamid. He had been manager of the firm's plant in Baltimore, Md., from 1942 until this year, and earlier was assistant manager, then manager of plants in Westwego and in New Orleans, La., from 1927 to 1942.

Mr. MacDonell joined Cyanamid in 1950 after spending one year with Pacific Island Engineers as project manager of major construction activities for the US Navy on Guam. From 1946 to 1948, he was chief Engineer of Spencer Chemical Company at Pittsburgh, Kan. Earlier he had been with Anaconda Copper Mining Company, for eleven years, part of the time as chief engineer of basic magnesium, a wartime project for the government in Nevada.

Columbia-Southern Resumes Operations at Corpus Christi

Columbia-Southern Chemical Corporation, Pittsburgh, Pa., last week wired OPD announcing "the termination of the labor difficulty which closed down its Corpus Christi, Tex., alkali and chlorine plant for several weeks. A new contract with the CIO Chemical Workers Union has been negotiated," the telegram went on, "and resumption of operations was effected on November 4."

In addition, the telegram stated that "a new contract has been successfully negotiated with AFL Machinists local representing all hourly employees at Columbia-Southern's Lake Charles, La., chlorine-caustic soda plant. The former contract ended on November 1. An amicable settlement was reached without any work stoppage," the wire concluded.

Pitts. Plate Sets Up Two New District Sales Offices

Additional district sales offices for Pittsburgh Plate Glass Company's new fiber glass division have been established in New York and Washington, D. C., according to Robert A. McLaughlin, director of sales for the division.

Paul D. Kaley has been named district sales manager in New York with headquarters at 30 Rockefeller plaza. Mr. Kaley has been associated with the fiber glass industry since 1941. H. J. Bygott, jr., has been appointed Washington district sales manager with headquarters at 1545 New York ave, N.E. Mr. Bygott has been associated with Pittsburgh Plate since 1935.

Trade Briefs

Precision Equipment Company, Chicago, Ill., has published a new catalog on its line of steel shelving, lockers and other storage and maintenance equipment.

Doyle & Roth Manufacturing Company, Brooklyn, N. Y., has issued a new bulletin on its line of standard vertical thermosyphon reboilers and reflux condensers.

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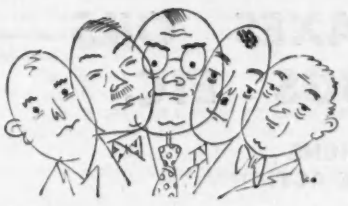

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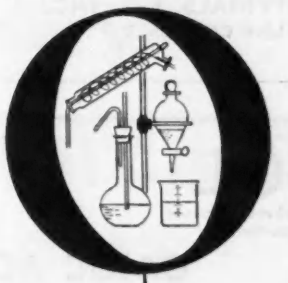

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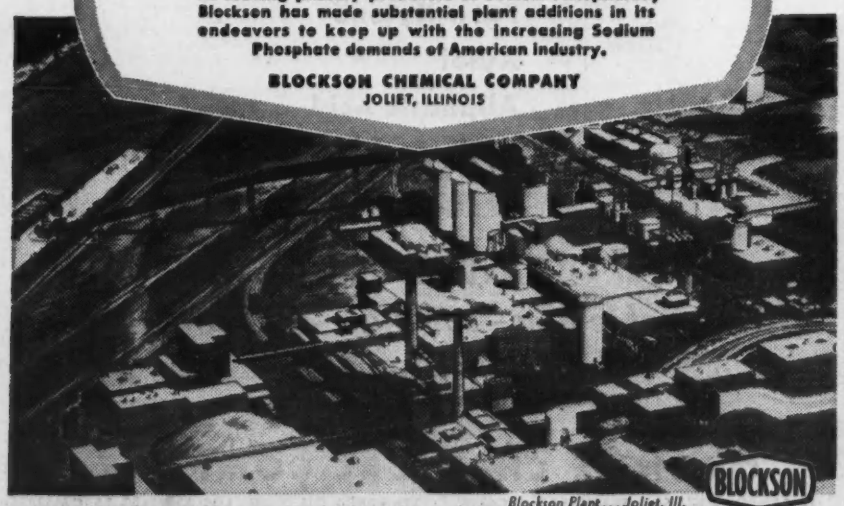

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- Disodium Phosphate, Crystalline
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Owens-Illinois Announces Six Top Executive Shifts

Owens-Illinois Glass Company, Toledo, Ohio, has announced six major changes among its top executives, five of them associated with the glass container division.

Smith L. Rairdon, vice-president and division general sales manager, has been named vice-president and director of marketing, a newly-created position in which he will coordinate all of the company's marketing activities. He will be succeeded as division general sales manager by Sydney F. Davis, manager of food industries sales since 1947.

C. G. Bensinger, vice-president and general manager of the Pacific Coast division, San Francisco, will be transferred to the general offices in Toledo as general manager of the glass container division. He will succeed Henry S. Wade, who has been appointed vice-president and general manager of the Pacific Coast division, in charge of all of the company's west coast operations.

The effective date of the appointments of Mr. Rairdon and Mr. Bensinger is January 1 and for Mr. Wade and Mr. Davis December 1. In a separate action taken by the board of directors, George S. Babcock, manager of the closure and plastics division, was elected a vice-president of the company and Hugh C. Laughlin, vice-president and general manager of the administrative division, was elected executive vice-president and member of the board.

MCA Appointments Told

The Manufacturing Chemists Association has announced several committee appointments. Dan M. Rugg, vice-president of the Koppers Company, Pittsburgh, Pa., has been named vice-chairman of the plastics committee and Harry M. Dent, president of Durez Plastics & Chemicals, Inc., North Tonowanda, N. Y., has been made a member of the committee. Mr. Dent succeeds the late F. A. Abbiati, of Monsanto Chemical Company, St. Louis, Mo. Paul L. Griffiths, consultant to the industrial relations department of the chemical division of Koppers, has been named to the student guidance committee.

N. E. Chemical Supply Completes New Terminal

Andrew J. Woronka, president and treasurer of the New England Chemical Supply Corporation, Manchester, N. H., has announced the completion of a new bulk liquid storage terminal for chemical and solvent storage at Grasmere, N. H.

One of the features of this plant is the complete dependability of gravity for unloading tank cars to filling drums at drumming station as well as tank truck filling from storage tanks. This new terminal is part of the company's expansion program, which also includes the leasing of 10,000 square foot warehouse at South Gardiner, Me., for distribution of chemicals in the central and southern Maine area. The South Gardiner facilities include a 400 foot wharf which permits the docking of ocean barges.

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Textile and Leather Chemicals

While consuming demand for textile and leather chemicals continued spotty, the market remained on a steady basis. Prices were maintained at prevailing levels, except flake egg albumen which was boosted sharply as a result of higher cost of frozen whites. Flake was lifted 12 cents per pound, while yolk was unsettled and off 1 cent per pound.

In sizing materials a moderate demand was noted for corn dextrin and starch for prompt requirements. Trading in imported potato starch was limited to spot delivery, while interest in shipments was reported quiet. Domestic potato starch continued scarce and the market was entirely nominal. There was little doing in tapioca flour. Offers for shipment from Brazil were practically unavailable and light stocks here were held for regular customers requirements. Sago flour for shipment was steady at the recent advance, while stocks on spot were quotably unchanged.

Buying interest in tanning material replacements continued light and was restricted to prompt shipment. Primary markets were unchanged and steady. Valonia cups and beards and African mangrove bark were well held at recent advances.

The national average support price for shorn wool or pulled during 1953 was announced at 90 percent of parity by the Department of Agriculture. Actual support prices as calculated at 90 percent of parity will be announced about April 1, 1953, when the March 15 parity price for wool becomes available. Loans for purchases will be made beginning May 1. The department also stated that loans and purchases under the 1952 wool support program will be extended an additional three months to March 1, 1953.

Market Trends

Prices Advanced

Egg albumen, flake, 12c. per lb.

Prices Reduced

Egg yolk, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
100.66	100.64	100.44	99.03

(For Current Prices see Page 9)

Chemicals

Bichromates—Production of sodium bichromate and chromate in August increased to 5,882 tons compared with 3.722 tons in July and 10,966 tons, August, 1951. Deliveries against contracts continued to move in good volume. Prices were without change and steady.

Sodium Acetate — Conditions remained steady, despite limited demand. Consumers limited purchases to actual needs. Quotations were unchanged and well held.

Sodium Hydrosulphite — Production in August was indicated at 2,162 tons, against 1,062 tons in July and 2,227 tons in August last year. Trading was restricted to actual requirements. Prices were without change.

Sizing Materials

Blood Albumin—While demand slackened to some extent, which is usual at this season, the market remained steady. Supplies were freer, enabling producers to make immediate shipments. Albumin was quotably unchanged at 70c. to 80c. per pound, depending upon quantity and quality. Demand for soluble dried blood was light and spotty. Prices ranged from 17c. to 18c. per pound, according to quantity.

Corn Dextrin — All grades were unchanged and maintained at the recent decline. Business was fair, chiefly for prompt delivery. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79; and white, $8.53, same basis. Less carlots were 15c. per 100 pounds more.

Corn Starch — Moderate quantities moved steadily into consuming channels for immediate requirements. Prices were steady at the recent decline. Pearl was quoted to $7.14 per 100 pounds, paper bags, carlots, New York, and powder, $7.26, same basis.

Egg Albumen—Higher cost of frozen whites lifted flake sharply. Prices were boosted to $2.51 to $2.53 per pound and powder to $2.55 to $2.57 per pound as to quantity. Business was reported spotty, chiefly for prompt requirements. Trading in technical was reported light. Quotations were unchanged at $1.03 to $1.08 per pound, as to quantity and seller.

Liquid egg produced during September totaled 11,003,000 pounds compared with 7,576,000 pounds a year earlier and 15,101,000 pounds, the 1946-50 average for the month, according to the Bureau of Agricultural Economics. The production for drying and freezing was larger than a year ago, but smaller for immediate consumption.

Dried egg output totaled 1,069,000 pounds against 468,000 pounds last year and the average of 2,855,000 pounds. Production during the month consisted of 142,000 pounds of dried whole egg, 764,000 pounds of dried albumen, and 163,000 pounds of dried yolk. Production during September last year consisted of 337,000 pounds of dried albumen and 131,000 pounds of dried yolk.

Egg Yolk—This market was easy and prices declined 1c. per pound. Demand was restricted to moderate quantities for prompt delivery. Quotations were lower at $1.03 to $1.05 per pound, depending upon quantity. Yolk production in September totaled 163,000 pounds, against 131,000 pounds, a year ago.

Potato Starch—Trading was reported light, and confined to prompt delivery. Market was unchanged and steady. Domestic starch was scarce and most of the recent business was transacted in imported material. Production was at a standstill in Maine. Idaho starch was nominal at 8½c. per pound, carlots, f.o.b. mills. Danish starch was maintained at 8.60c. per pound, bags, carlots, duty paid, New York and Dutch at 8.85c. to 8.90c. per pound, as to packing, same basis. Imported on spot was quoted at 9½c. to 10½c. per pound, exwarehouse, as to quantity.

Rice Starch—Higher cost of replacements from Belgium and Italy has appreciably raised prices of spot stocks to 15c. to 17c. per pound, depending upon quantity. Demand was light.

Sago Flour — Spot was quiet and unchanged while shipments from Singapore were firm at the recent advance. Shipments were held at 6½c. per pound, carlots, exdock. Raw on spot was unchanged at 7¼c., and refined, 8½c. to 9c. per pound, exwarehouse.

Tapioca Flour—Tight supply condition continued to affect trading. Supplies on spot were scarce and quoted nominally at 14c. to 16c. per pound, exwarehouse, according to seller and quantity. Offers from Brazil continued scarce and high cost of replacements also has sharply reduced buying interest.

Tanning Materials

Chestnut Extract—Buying interest was reported moderate as consumers continued to limit demand to actual needs. Light stocks were firmly held at prevailing quotations.

Cutch—Market was quiet, but steady. Offerings for shipment were light and well held at 8¼c. per pound, exdock, plus duty.

Mangrove Bark—Business lacked snap, but the market remained on a steady basis. South American was quoted at $60 per ton, exdock, and African at $79 to $80 per ton, same basis.

Myrobalans—Consuming inquiry for replacements was spotty. Prices were without change and well held for all grades. Ordinary JI's were quoted at $45 per ton, exdock; assorted at $48 per ton, and crushed, $65 to $66 per ton, same basis.

Quebracho Extract—While trading was spotty, chiefly for prompt shipment, the market ruled firm. Shipments were quotably unchanged. Solid ordinary was quoted at 11 31/64c. per pound, carlots, exdock, and clarified, 12 3/16c. same basis plus duty.

Sumac Leaf—Lower price has not improved buying interest as cost of replacements was still considered too high. Shipments were recently reduced to $110 per ton, exdock.

Valonia—This market continued steady at the recent advance. Inquiry was fairly active. Cups were held at $67 per ton, exdock and beards, at $88, same basis. Extract was unchanged at 9½c. per pound, exdock, plus duty.

Wattle—Shipments of all grades continued firm at prevailing quotations. Trading was slow. Fair average bark was quoted at $103 per ton, and merchantable, $99 to $100 per ton, exdock, South African extract was held at 11⅛c. and East African, 10⅞c. per pound, exdock, plus duty.

For Late Market Developments, See Page 4

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Agricultural Chemicals

Attention from the markets was diverted to outside developments during most of the past week and there was an absence of important price changes or trade news. Latest figures show a substantial increase in the production of synthetic ammonium sulphate and the fact that steel output is running around the highest level of the year speaks well for production of coke-oven sulphate also. Demand, however, is readily absorbing current output and the tight supply position has shown no important easement. Passing of the harvest season has resulted in resumption of activity at many small fertilizer mixing plants and this in turn is reflected in an increased call for shipments of nitrogen, superphosphate and potash. Producers of super located around the local area report the supply condition tight with consumers constantly asking for larger commitments. Potash is moving steadily from domestic plants which are sold ahead to capacity. According to trade reports, imported potash has not moved too well so far this season. Ammonium nitrate remained heavily sold ahead and there are no excess stocks of anhydrous ammonia or nitrogen solutions. The exceedingly short supply of leather scrap, fleshings and other basic materials has kept production of nitrogenous process tankage at a definitely low level.

Fertilizer Materials

Ammonium Nitrate — Supply position continued tight. August production of original solution amounted to 114,990 tons including 96,540 of fertilizer grade and 18,450 of other grades. Total production in July was 107,342 tons, compared with 112,076 in August, 1951. A sale of 30,000 metric tons of ammonium sulphate nitrate containing 26 percent nitrogen at $57 a metric ton f.o.b. Rotterdam has been sold to Formosa.

The Seven-Year Plan Organization, Tehran, Iran, reportedly contemplates the establishment of a synthetic ammonia plant, in connection with which American manufacturers are invited to submit preliminary plans. These plans will be studied by a technical commission and will be used as a basis for drawing up the specifications for formal adjudication. The factory is to be built in or near the oil fields of Khouzistan on a site about 100 kilometers from the Trans-Iranian Railway, to which it is connected by a 1-meter gage railway. It should have a capacity for producing in a 24-hour period 100 tons of ammonium sulphate (21 percent N.), 15 tons of ammonium nitrate (35 percent N.), and 5 tons of nitric acid (95 percent acid).

Ammonium Sulphate — No important easement in supply conditions last week. Latest figures on production of synthetic technical show a substantial increase. August output amounted to 81,632 tons, compared with 74,002 in the preceding month and 49,966 tons in August, 1951.

Bone Meal—Sellers sustained the former price of $75 per ton works for domestic. Buying interest relatively slow all week.

Castor Pomace—Trading continued quiet more the result of a lack of offerings. Demand remained active for fertilizer use.

Dried Blood—Market held at former prices. Trading not unusually active for feed use. Sellers named $7.75 for unit of ammonia at New York and at $8 in Chicago.

Fish Meal—Menhaden unchanged at $135.60, the ceiling price. Department of the Interior states that imports of fish meal for feed and fertilizer during July, 1952, amounted to 9,753 tons compared with 6,791 tons for the same month of 1951. During the first seven months of 1952, fish meal imports totaled 137,991 tons compared with 66,074 tons for the same period in 1951.

Hoof Meal—Quiet and steady at $7 per unit of ammonia, Chicago basis.

Lime—Bureau of Mines states the amount used in August for agriculture amounted to 20,219 tons including 7,079 tons of quick lime and 13,140 tons of hydrated lime. The July total was 12,751 tons and the total for the first half of 1952 was placed at 151,128 tons.

Phosphate Rock—Firm and relatively tight particularly for high grade Florida rock. Domestic demand for contract shipments continued steady while further purchases by Japan were reported for shipment over the first three months of next year.

Potassium Muriate—Demand for domestic contract shipments remained active with no sign of relaxing. Increased activity at several of the smaller mixing plants has been reflected in the increased call for shipments of muriate.

Sodium Nitrate—Agricultural demand mostly routine and in line with seasonal wants. Movement expected to increase shortly after turn of the year. Supply situation comfortable.

Superphosphate — Contract shipments are increasing with mixers still attempting to increase commitments. The market position remained firm with the supply situation tight in this area.

Tankage — activity has slowed down without revealing any important change in prices. New York quoted $7.50 per unit of ammonia and Chicago $8.50.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
113.53	113.53	113.56	113.31

(*For Current Prices see Page 9*)

Los Angeles Market

Los Angeles.—The local market experienced a definite lull during the week. Trading was light with only moderate interest on the part of both buyers and sellers. The organic market was dull with such varied opinions on the part of both trading factions that going market prices were difficult to peg. Fish meal quotations remained at ceiling, with some orders placed against January-June production of mixed tuna-mackerel meal. The next shipment of calcium nitrate is scheduled for arrival the middle of December; the last shipment, which arrived October 17, is enroute to contract buyers.

Ruling prices were:—Ammonium nitrate—$85.30 per ton, domestic, f.o.b. Los Angeles. $86.84 per ton for Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$76.14 per ton in bags, 16/20 grade f.o.b. Los Angeles. $100.64 per ton in bags, 11/48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulphate—$54.87 per ton in bags, f.o.b. Los Angeles. $3 less in bulk. Canadian material same.

Blood meal—$6-$6.25 per unit of ammonia at source. Bone meal $80 per ton, imported, 1/65 meal, c.i.f., Los Angeles Harbor. Domestic—$90-$92 per ton, f.o.b. Los Angeles.

Calcium nitrate—$48 per ton, 15½ percent nitrogen, c.i.f., Los Angeles Harbor.

Castor pomace—$37.25 per ton, f.o.b. Los Angeles.

Fish meals—$146.90 per ton nominal, 65 percent sardine, f.o.b. Los Angeles or Monterey. $135.60 per ton, 60 percent tuna meal, f.o.b. San Pedro. $158.90 per ton, nominal, 70 percent Alaskan herring, f.o.b. Seattle.

Pesticides

Some producers stated that DDT appeared a bit steadier around 32c. per pound, others were not so optimistic. The general market for insecticides did not priced at .013c. to .015c. per gamma unit. Cryolite shipments to Florida are of seasonal dimensions. In the pesticides, warfarin remained in good demand with prices steady and supply comfortable. Moderate pre-season inquiry was reported for 2,4-D and 2,4,5-T with supply and demand brought into balance. Copper sulphate continued in good supply with immediate shipments available and demand from the citrus fruit area showing no unusual activity.

A representative of the Office of International Trade stated that exports of chemical weed killers amounted to 8,500,000 pounds for the first eight months of 1952 with total exports for the year estimated at 10,000,000 to 12,000,000 pounds. Exports chiefly went to Canada, Cuba, Colombia, Venezuela, Peru, Argentina, British Malaya and Turkey.

BHC—Production was down to 3,566,301 pounds in August from 8,269,725 in July and 1,341,361 pounds in August, 1951. The gammor isomer content in August amounted to 674,505 pounds, against 1,888,192 in the preceding month and 1,341,351 pounds in August last year.

2,4-D—August production of 2,4-D and derivitives was increased to 3,259,847 pounds from 1,900,855 in July and 1,610,167 pounds in August, 1951.

DDT—Output in August was placed at 6,143,956 pounds, compared with 9,067,955 in the previous month and 9,374,166 in August last year.

2,4,5-T—Production of this acid was 315,898 pounds in August, compared with 237,419 pounds in the preceding month.

For Late Market Developments, See Page 4

Davison Fertilizer Process Licensing Assigned to Harte

The John J. Harte Company, Atlanta, Ga., has been granted non-exclusive rights to license manufacturers to use the Davison Chemical Corporation's process for the manufacture of homogeneous granulated mixed fertilizers, it was announced last week by Davison. Patents on the process have been applied for.

Fertilizer produced by the Davison process in granular form, has been highly favored by dealers, farmers and agronomists from experience, based on rather sizable production in Davison plants. The granular product feeds evenly through the farmer's drilling or broadcasting equipment, according to Davison, and has complete homogenity so that each particle contains the same proportions of plant foods. In addition, it was claimed, the product is not lost easily by blowing of winds, resists caking in storage over prolonged periods of time and in the soil gives maximum nutrient effect.

Delanium's Illinois Plant In Operation This Week

Announcment has been made by W. J. Crawford, president of Delanium Carbon Corporation, New York, jointly owned by Great Lakes Carbon Corporation and Powell Duffryn Carbon Products, Ltd., that its new plant at Morton Grove, Ill., will be in production around November 15. The plant will produce "Delanium" graphite cubic heat exchangers. Later the plant will produce "Paragrid" absorption and scrubbing towers and other graphite products for the chemical, metallurgical and process industries.

Fisher, Gamma Change Address

Fisher Chemical Company and Gamma Chemical Corporation have announced the removal of their executive and sales offices from 60 East 42nd street to 220 East 42nd street, New York 17. The telephone number, MUrray Hill 2-2587, remains unchanged.

Amer. Can Aids Research on Metals

The American Can Company, New York, has announced that it has joined with other industrial corporations in support of the basic research program of the institute of metals at the University of Chicago. The contribution is at the rate of $20,000 per year.

Trade Briefs

David C. Murchison has been named associate general counsel of the Small Defense Plants Administration.

Schuele & Co., Buffalo, N. Y., has elected Jay T. Baer president under a reorganization of the firm.

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MSA Announces Additional Procurement Authorizations

Authorizations were granted during September and October by the Mutual Security Agency to free world countries to use MSA funds for the procurement of a large number of commodities for their defense and civilian industries, including the following:—

To Austria—$130,000 for sulphur and $400,000 for lard from the United States.

To China—$118,000 for prime tallow, $255,000 for chemicals and chemical products, $951,000 for medicinal preparations, and $7,910,000 for various fertilizers and materials from the United States, and other free-world sources.

To France—$1,155,000 for medicinal preparations, $4,017,000 for chemicals and $5,000,000 for copper products from the United States; $2,200,000 for copper products and $1,800,000 for nonmetallic minerals from Canada.

To Germany—$300,000 for nonmetallic minerals from the United States and Canada.

To Greece—$150,000 for chemicals and $20,000 for rennet powder from the United States.

To Indochina—$111,000 for chemicals from the United States, Japan, Canada and European free-world countries.

To Italy—$260,000 for copper products from the United States.

To Netherlands—$300,000 for chemicals from the United States, and $100,000 for nonmetallic minerals from Canada.

To Philippines—$3,671,000 for fertilizers from the United States, Japan and European areas.

To Unitel Kingdom—$1,000,000 for chemicals from the United States; $15,000,000 for aluminum, $3,000,000 for copper, and $2,000 for zinc from Canada; $2,000,000 for copper from Latin America.

To Yugoslavia—$590,000 for chemicals, $1,000,000 for lard, and $190,000 for tallow and other animal fats and oils from the United States.

Detergent Extender Offered, Oil & Chemical Announces

A low-cost detergent extender, said to be capable of replacing up to 50 percent of alkyl aryl sulphonates, has been introduced by the Oil & Chemical Products Company.

The extender is a by-product derived from the company's recently developed process of refining benzol. It is a mixture having an approximate analysis of C_{9-11} H_{15-17} SO_3 Na. One gallon contains about 1.7 pounds of sulphonate. When added to an alkyl-aryl sulphonate, the mixture gives results almost equal to those obtained from the detergent used alone, the company states. A technical bulletin is available from the company at 295 Madison avenue, New York.

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Bids Wanted

Acids, 5,760 gals. cresylic, technical; 165 lbs. hydrofluoric; 573 gals. oleic; Norton AF Base, San Bernardino, Cal., inv. 50, Nov. 21.

Barium nitrate, 108,332 lbs. granulated, New York Chemical Corps, 180 Varick St., New York 14, N. Y., inv. 51, Nov. 18.

Chemicals, misc., 75 lbs. chloroform, 200 lbs. mercury, 50 lbs. potassium dichromate, 100 lbs. potassium bisulphite, 75 gals. methyl alcohol, Base Procurement Division, Wright-Patterson AFB, Ohio, inv. 44, Nov. 17.

2,4-D, 2,100,000 gals. isopropyl ester, 1,000,000 gals. butyl 2,4,5-T, Chemical Corps, Camp Detrick, Frederick, Md., inv. 79, Nov. 26.

Drugs, misc., 192-10 gm. bots. adonite, 192 bots. brilliant green 2% bile broth, 10,944 ⅛-oz. bots. cocaine hydrochloride, 192 1-lb. bots. desoxycholate—citrate agar, 422—1 gm. bots. hematein, 600 1-lb. bots. iron agar, Army Medical Procurement Agency, 84 Sands St. Brooklyn 1, N. Y., inv. 613, Nov. 14; 408 1-lb. bots. agar, 168 1-lb. bots. malt extract broth, 528—1 lb. bots. nutrient casein, 480 1-lb. bots. peptone agar, 480 1-lb. bots. peptone phosphate broth, 168 1-lb. bots. phenol red broth, 432 bots. potassium tellurite blood solution, 168 1-lb. bots. proteose, 1,272 1-lb. bots. ss. agar, 624 1-lb. bots. tetrathionate broth base, 504 1-lb. bots. thioglycollate, 240 1-lb. bots. tryptone glucose extract agar, 312 1-lb. bots. violet red bile agar, Army Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 653, Nov. 18; 1,728 ¼-lb. bots. anaerobic agar, 4,368 ¼-lb. bots. calcium acetate, 4,608 bots. crotamiton ointment, 21,216 pt. bots. disinfectant solution, 1,200 bxs. dusting powder lubricant, 101,376 ¼-lb. cns. ether, 14,880 ¼-lb. bots. ethyl nitrite spirits, 2,424,672 1-oz. cns. foot powder, 2,016 bots. iodized oil, 1,500 bxs. iodized oil, Army Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 663, Nov. 18; 6,000 bots and 4,000 pkgs. aureomycin hydrochloride, 70,000 vials procaine penicillin "G", 250,000 vials dihydrostreptomycin, 60,000 vials procaine penicillin "G" in oil, 3,000 bots. terramycin tablets, 12,000 bots. p-aminosalicylate-sodium, 10,000 bots. vitamin B complex, 2,000 bots. veriloid tablets, 1,000 bots. santonin and calomel tablets, 300 vials ACTH, 2,000 bots. isonicotinic acid hydrazide, Federal Supply Services, 7th & D Sts. SW, Washington 25, D. C., inv. 2Q-N-20160-R, Nov. 17; 804 bots. bishydroxycoumarin 50 mg. tablets, 3,744 bots. diethylstilbestrol tablets, 2,664 bxs. iodopyracet injection, Army Medical Procurement Agecny, 84 Sands St., Brooklyn 1, N. Y., inv. 615, Nov. 14; 25,632 bots. ethyl chloride, 3,456 1-oz. bots. eucalyptol, 12,672 1-oz. bots. eugenol, 29,568 1-lb. bots. glycerin, 8,020 10-lb. cns. glycerin, Army Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 590, Nov. 17; 5,616 bots., reagent alphanaphthol, 96 bots. trehalose, 31,104 bots. vitamin B-12, Army Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 655, Nov. 14; 131,000 pkgs. of 10 tubes, smallpox vaccine, Army Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 638, Nov. 17; 61,120 jars water soluble ointment base, Army Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 631, Nov. 14.

Ferric sulphate, 1,673 lbs., Norton AF Base, San Bernardino, Cal., inv. 50, Nov. 21.

Hydrocarbon, 16,000 gals. hydrocarbon fluid, Wright Air Development Center, Wright-Patterson AFB, Ohio, inv. 616-66 B, Nov. 26.

Ink, 6,700 cns. stencil duplicating ink, Federal Supply Services, 250 Hudson St., New York 13, N. Y., inv. NY-1C-41833, Nov. 18.

Morpholine, 324 gals. morpholine marlex corrosion inhibitor "A", Chemical Corps, Camp Detrick, Frederick, Md., inv. 78, Nov. 25.

Naphtha, 11,000 gals. aliphatic petroleum naphtha, Chemical Corps, 1200 Jackson St., Dallas, Tex., inv. 20, Nov. 19.

Paint, 200 gals. battleship gray floor and deck enamel, 300 gals. dark bleacher gray floor and deck enamel, QM, Ft. Benning, Ga., inv. 66, Nov. 17; 1,000 gals. hot lacquer lustreless, 500 gals. thinner, Aberdeen Proving Ground, Aberdeen, Md., inv 197, Nov. 20; 3,100 gals. paint and thinner, Federal Supply Services, 250 Hudson St., New York 13, N. Y., inv. 3B-42514, Nov. 17; 480 gals. ready mixed aluminum paint, spec. TT-A-458A, Federal Supply Service, 7th & D Sts. SW, Washington 25, D. C., inv. 3N-21204-R, Nov. 18.

Propellant, 25,000 lbs. propellant powder, Frankfort Arsenal, Philadelphia, Pa., inv. 282, Nov. 17.

Sodium hexametaphosphate, 10,000 lbs., Purchasing Office, Ft. Lee, Va., inv. 10, Nov. 13.

Sollum hydroxide, 50½ tons, 50% solution, Chemical Corps, W. Jackson Blvd., Chicago, Ill., inv. 35, Nov. 21; 56,664 lbs., Chemical Corps, 180 Varick St., New York 14, N. Y., inv. 52, Nov. 18; 250,000 lbs. Chemical Corps, 180 Varick St., New York 14, N. Y., inv. 53, Nov. 18.

Trichloroethylene, 1,500 gals., Picatinny Arsenal, N. J., inv. 98, Nov. 17.

Celanese Textile Div. Ups Loughlin, Boston, Armstrong

K. C. Loughlin, vice-president of Celanese Corporation of America, New York, has been named general manager of the textile division, with full responsibility for management of the textile activities of the company. The appointment of Mr. Loughlin to this new corporate post, together with several other appointments, completes the organization program of the division, it was announced.

J. Guyton Boston has been elevated to general sales manager of the division, the position relinquished by Mr. Loughlin. Previously, Mr. Boston had been sales manager of acetate filament yarn. Dr. R. T. Armstrong, associate director of the Summit, N. J., research laboratories, has been promoted to the new position of technical director of the division. He will direct and coordinate all research and development activities.

Obituaries

Dr. Antoine E. Lacomble

Dr. Antoine E. Lacomble, retired chairman of the board of the Shell Development Company, San Francisco, died November 5 in San Francisco. He was fifty-eight years old.

A native of the Netherlands, Dr. Lacomble joined Shell Petroleum in 1920 and was assigned to the Netherlands East Indies before transferring to California in 1926. Mr. Lacomble was president of the Shell Development Company from 1943 to 1948, and chairman of the board until his retirement two years ago.

Ludolph H. Conklin, sr., president of Flood & Conklin Company, Newark, N. J., died November 3 in Morristown, N. J. He was seventy years old. Mr. Conklin joined the firm in 1904, which had been co-founded by his father, Franklin Conklin. He became a chemist, specializing in varnishes, and in 1943 became president of the company.

James C. Crane, who had been a manufacturing chemist in New York for thirty-five years, and had been engaged in the drug business in Montreal for several years, died November 1 in St. Thomas, Ontario. He was eighty-two years old.

Leo Forst, formerly chief chemist in the Food and Drug Administration's laboratory in Washington, D. C., died in Cincinnati, Ohio, November 3. He was sixty-eight years old. Prior to retirement, Mr. Forst was with Ries & Fries, Cincinnati. During World War I he served as a chemist in the Navy.

John E. Hatosy, chief combustion engineer for the Gulf Oil Corporation, died in Queens, N. Y., November 2. He was fifty-eight years old. Mr. Hatosy had been with Gulf twenty years.

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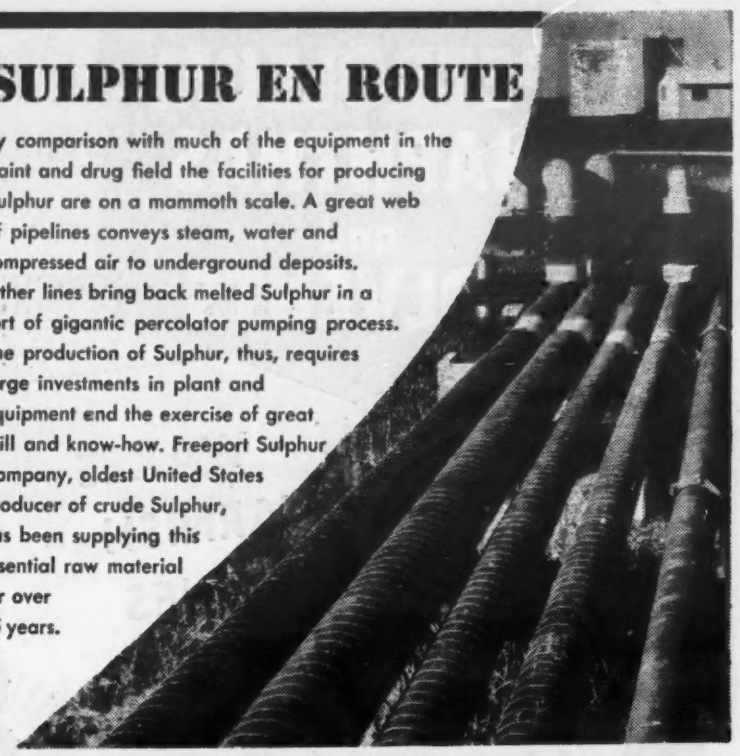

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Petroleum Derivatives

No price changes were recorded for petroleum derivatives in the past week, as all materials on the market were available at the prices in effect previously. Business was brisk, with demand particularly heavy for toluol. Production of this material has remained insufficient to satisfy current demands from military and industrial users. Xylol was in good demand, the rate of production being affected considerably by market requirements for toluol. Aliphatic naphthas and solvents continued in active demand, with some increases noted recently.

Basic petroleum products remained in ample supply for the demands of all interested consumers. Inventories of fuel oils were at a level that was thought sufficient for the heating needs of the season, although the uncertainty of the weather made exact calculations impossible. Although not in oversupply, butane was available for most regular users in needed amounts. Other liquefied petroleum gases were in good supply in most areas.

Ample supplies of microcrystalline and paraffin waxes insured good delivery schedules, as manufacturers maintained comparatively large inventories. The consumer was able to obtain needed amounts of white mineral oils without difficulty. Petrolatums, as well, were easily available ply and presented no supply problem to the consumer.

Solvents and Diluents

Cleaners' Naphtha — Production continued at the steady rate of the recent past, keeping pace with consumer needs. There were ample quantities of the material on the market to satisfy current demand without difficulty. This condition of comfortable balance was expected to be maintained, barring unexpected shifts in either supply or demand.

Mineral Spirits—The consumer found satisfactory quantities of the material obtainable on the market, since a good rate of production enabled manufacturers to fill the needs of their customers without difficulty. Sales were made at the rates previously in effect. With the current demand expected to continue without sizable changes for the immediate future, no difficulty was foreseen by manufacturers in meeting demands.

Toluol—An undimished demand for the material kept it in the tight position it has occupied for the past months. All producers agreed that the market could use a great deal more than they were able to supply. Demands for the nitration grade material, as well as for aviation gasoline, continued heavy from both military and industrial users. The tightness led manufacturers to allocate their supplies to insure an equitable distribution. Also a result of the current supply shortage was a cutback on xylol production. No changes were made in the prices of the material.

V.M.&P. Naphtha—Demand for the material has recently shown a tendency to increase, and continued the trend in the past week. The higher rate of demand was satisfactorily met by manufacturers, who found little difficulty in maintaining their production at the required level. This market should, it was stated by observers in the trade, remain untroubled by supply problems for the immediate future. Prices of the material remained unchanged.

Xylol — With manufacturers turning their production facilities to the scarce toluol, an effect was noted on the xylol supply picture. The material was not available in the quantities demanded by the current consuming market. Indications showed that it would remain in somewhat tight supply for at least as long as toluol continued at the current rate of demand.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended October 25, totaled 267,475,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 266,466,000 barrels for the preceding week, this represents an increase of 1,009,000 barrels comprising an increase of 772,000 barrels in stocks of domestic crude and an increase of 237,000 barrels in stocks of foreign crude.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month
104.13	104.13	104.12

(*For Current Prices see Page 9*)

Lighter Fractions

LPG's — Demands for liquefied petroleum gases showed no marked increases in the past week. The highest rate of buying for the winter season was still to be reached. Adequate supplies of butane and propane were available in most areas. However, in the East, due to an active demand, the amount of butane available was by no means great. Sales were reported made at quoted prices, with no price shading in evidence.

Waxes

Microcrystalline — This market has turned a bit stronger in past weeks and continued to strengthen in the week just past. A good volume of sales was reported by those in the trade, with many orders showing indications of a continued lively demand. The export market, however, presented a less favorable appearance, as demand from abroad continued at levels far from the peak. Any increase in demand from abroad would, it was said, be a welcome advantage to manufacturers in this country. Prices were maintained evenly as previously quoted for all grades of the material.

Paraffin — Industrial users have continued demands at approximately the levels noted since the beginning of the present quarter. The quantities of the material available were ample in most instances to fill orders without difficulty. Some manufacturers reported that an increased demand could be met from current production without any pinch being felt in available quantities. Steady prices prevailed throughout the week.

Miscellaneous

Crude Oil—The amount of crude petroleum that will be consumed in the United States or exported in November was estimated by the Bureau of Mines as 6,420,000 barrels per day. This figure showed a drop from the 6,450,000 barrels daily forecast for October.

World crude production in March averaged 12,191,000 barrels daily, according to Bureau of Mines figures. This rate of production showed an increase of 1.2 percent over the rate for February.

Gasoline—Premier grades of motor fuel will be reintroduced in Great Britain after February 1, 1953, it was announced by the Minister of Fuel and Power. All brands of motor gasoline have been pooled since September, 1939. Gasoline of pool specification will continue to be sold. Consumers will be able, however, to choose between brands of pool specifications and the highest grades to be reintroduced.

Los Angeles Petroleum Market

Consumer demand for solvents and diluents remained brisk and consistent during the week. The supply position for all items remained adequate for the present although certainly no oversupply was reported by any producer. Cleaning solvents, including Stoddard, quoted from 15.7c. to 19.7c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles Basin Area. Lacquer diluent quoted 16.7c. to 20.7c. per gallon, same basis.

Demand for butane continued at a good level with supplies considered tight in most quarters. Pricewise, there was no change with listings firm at 4.8c. per gallon, tankcars, f.o.b. Los Angeles. Propane quoted 4.3c. per gallon, same basis, with stocks adequate to meet the moderate rate of demand.

Little change was reported for high melting point paraffin waxes as buying interest was more steadily maintained, following a normal seasonal trend. Availability of all grades was reported adequate to meet present requirements. Following quotations, although unchanged, were firmer than in previous weeks: 122/128 ASTM, carload loose slabs, fully refined, f.o.b. shippers refinery, San Francisco, 7.45c. per pound; 142/148 ASTM, same basis, 7.55c. per pound; 146/148 ASTM, same basis, 7.65c. per pound, and 157/162 ASTM, same basis, 8.3c. per pound. Tankcar prices quoted 7.05c., 7.15c., 7.25c. and 7.9c. per pound respectively.

For Late Market Developments, See Page 4

Ethyl Product Development Post to Louis M. Sherman

Louis M. Sherman has been appointed by Ethyl Corporation, New York, to the post of associate director of product development in charge of industrial chemicals. He will serve on the staff of William T. Hack, director of product development, according to an announcement by B. Bynum Turner, vice-president in charge of research and engineering.

After six years of experience in the industrial chemicals field, Mr. Sherman entered the Chemical Warfare Service of the US Army in 1941. He served as a project officer and chief of design section, plants division, technical command at the Army Chemical Center in Maryland until 1945. For the following year he served as an adviser on chemical plants and adjutant of the Army section for the US-Brazil Joint Military Commission. He left the Army in 1946 with the rank of major, and for the next six years was associated with the American Cyanamid Company and its subsidiary, Chemical Construction Company, New York.

California Standard Ups Lenzen to Vice-President

Election of T. L. Lenzen as a vice-president of Standard Oil Company of California has been announced by R. G. Follis, chairman of the board of directors.

Mr. Lenzen has been manager of Standard's eastern hemisphere operations and has been closely affiliated with Middle East oil developments since 1938. He has spent considerable of his time abroad as coordinator in the administration of Standard's interests in the affiliated producing, refining, transportation and marketing companies doing business in the eastern hemisphere. He is a director of Bahrein Petroleum Company, Ltd., California Texas Oil Company, Ltd., and Overseas Tankship Corporation. The new vice-president joined Standard in 1928.

Ind. Standard Industrial Relations Posts to Three

F. Roe Weise has been appointed to the new position of associate director of industrial relations of Standard Oil Company (Indiana) and E. W. Ahern and J. P. Nielsen have been named assistant directors.

Mr. Weise had been assistant director. Mr. Ahern had been supervisor of the training section in the industrial relations department, and Mr. Nielsen had been superintendent of the industrial relations division at the company's Whiting, Ind., refinery.

Socony-Vacuum Exploration Installs 16 Producing Wells

Socony-Vacuum Exploration Company, an affiliate of Socony-Vacuum Oil Company, operating in western Canada, has announced the completion of sixteen wells as producers in the Swift Current Area, Saskatchewan, since January 1. The company also announced that drill stem tests now underway on four out of five operations in separate areas indicate probable successful completions.

All these developments are in Saskatchewan, where Crown permits involving a total of 1,420,000 acres are being explored jointly with the Western Prairie Exploration Company, Ltd., and the Southern Production Company. To date, forty wells have been drilled within these permits.

NPC Adds Coleman

J. P. Coleman, newly elected president of the National Stripper Well Association, has been appointed to membership on the National Petroleum Council. Mr. Coleman succeeds J. P. Jones, outgoing president of the association.

Trade Briefs

Mediterranean Oil Company has named R. S. Macmillan and S. M. Betterson to its board of directors.

Shell Oil Company has ready for distribution a color film entitled, "Oil—The Invisible Traveler."

The American Petroleum Institute has announced publication of a third edition of the "Bulletin on Recommended Practices in the Setting, Connecting, Maintenance and Operation of Lease Tanks."

Tide Water Associated Oil Company, New York, has named Dwight P. Bailey assistant industrial products sales manager of the eastern division and Wilfrid S. Fenton industrial sales manager of the New York sales department.

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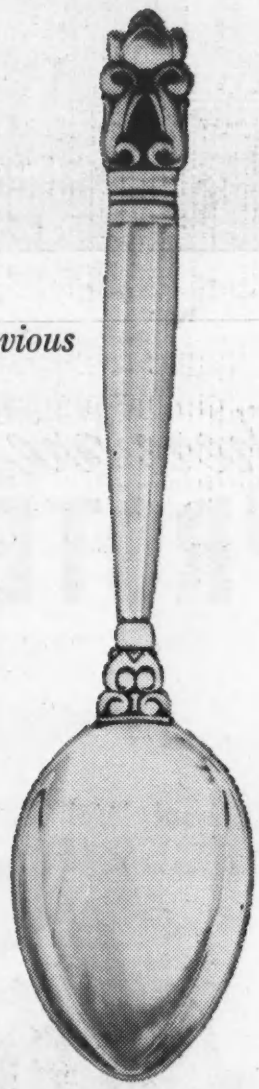

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Coal Chemicals

There was no price activity in this market last week. Producers reported that the general trend towards better levels of business was carrying through. Most sources looked for good sales levels for the rest of this year and into the first quarter of next year. No one was too sure of any trends beyond that time.

Coaltar producers were still moving all of their benzol output and expected to keep up the same levels for the next few months. Toluol remained in tight supply. It looked as if government buying for T.N.T. production and aviation gasoline, plus increased industrial requirements would be enough to keep the market in short supply for the next several months. Xylol was currently balanced, and was expected to remain so for the next few months.

The cresols and cresylic acid have been moving at a better pace since early in September. Some of the improvement was the result of recent price reductions, but most of it was from the pickup in cresylic resins and the improvement of the general levels of business. Both natural and synthetic phenol were now showing better sales levels. The increases in this market were said to be more substantial than the pickup for other tar acids. Imported cresylic acid was still slow, although it was moving better than it did during summer months. Some of the slowness in ADF acid was due to a shortage of lower-priced material, it was said. Naphthalene has shown some signs of picking up a bit. Refined material has been moving well for quite a while. Imported 78-degree naphthalene was still quite slow.

The general level of intermediate sales has picked up since early September. Those materials used as dyestuff intermediates have picked up with the textile industry. Phthalic anhydride has shown substantial improvement in the past several weeks. Resorcinol was going well. Demand for styrene was strong.

The American Iron and Steel Institute announced that another record total of steel was produced during the week ending November 1, with a total of 2,229,000 tons. The operation rate for the week ending November 8 was scheduled to be 105.7 percent of theoretical capacity. This was equivalent to 2,196,000 tons, compared with the previous week's record total when operations were at 107.3 percent, and production of 2,215,000 tons one month ago.

Basic Products

Benzol—There was no particular change in the outlook for this market. Producers were currently moving all of their output and expected to continue doing so for the balance of the year. The market was not so tight that consumers were finding difficulties obtaining material, nor was it expected to get into a critical supply position. But, there was sufficient demand to hold the market at the present level for several months.

Information released by the Tariff Commission indicated that August output of all grades except motor benzol was 18,312,642 gallons, compared with 11,167,307 gallons in July.

A breakdown of the figures showed that cokeoven operators produced 12,935,368 gallons in August, against 3,699,016 gallons in July. Tar distillers produced 2,877,370 gallons in August, and 4,552,542 gallons in July. Petroleum operators accounted for 2,499,904 gallons in August and 2,915,749 gallons in July.

In addition, cokeoven operators produced 144,863 gallons of motor grade benzol in August, compared with 68,278 gallons in July.

Creosote—The market for this material has not shown much change in recent weeks. There have been some signs of slight increases in activity, but the changes have not been exceptionally marked. Producers anticipated that creosote would continue to move along fairly well. Supplies were adequate for current consumer demand. Prices held to old levels.

According to the Tariff Commission, tar distillers and cokeoven operators produced 12,547,368 gallons of creosote in August, compared with 6,509,398 gallons in July. Tar distillers put out 7,891,677 gallons of the August figure and 5,989,546 gallons in July. August output of cokeoven operators was 4,655,691 gallons, as against 519,852 gallons in July.

Cresols—These tar acids have held on to the ground that they have gained since the beginning of September. Some producers have stated that the trend seems to be towards a steady gradual increase in business. The improvement of the tar acids have been part of the general outlook. When the increases were noticed first, they were so slight that it was difficult to tell if a gradual trend was developing. However, the steady progress since the first signs were apparent has taken the movement past the embryo stage. Producers felt certain last week that the remaining months of the year would be relatively good sales months.

Production figures released by the Tariff Commission indicated that August output of meta-para isomers was 697,798 pounds, compared with July production of 815,906 pounds. The figures for July and August output of mixed ortho-meta-para isomers were not available.

Cresylic Acid—Domestic coaltar acid has continued to move along the lines of improvement set during the opening weeks of last third of the year. The buildup has not been sudden or sufficiently strong to stimulate much scare buying. But, there has been enough improvement to make the next few months look encouraging to the industry.

Imported ADF acid has also been moving in better volume since the beginning of September, however there has not been a steady buildup of the volume of activity. ADF material was currently moving in better volume than it was during the dead summer months. Inquiries were coming in with greater frequency, and for larger quantities, but sales were largely concluded only when the price was right. Further, importers have been reporting that they were finding it more difficult to obtain material which they could resell at the 85c. price level. It was said that consumers were inclined to hold out for the lowest price possible in the 85c. to $1 price range, depending upon quantity. On the other hand, foreign suppliers would not come down below that price and were not allowing sufficient commission to sell the material at that price, it was said. Thus, importers were found in a squeeze, which explained why some importers were not actively trying to sell more acid. It was felt by some, that it is better to wait until cresylic acid can be sold at a profit.

August output of refined cresylic acid, according to the Tariff Commission, was 2,456,504 pounds, compared with July production of 2,758,303 pounds.

Naphthalene—Although the market for this coal chemical has not shown the same degree of improvement that some other materials have shown, there were enough signs to indicate a better outlook for naphthalene. Refined material has been moving very well for the past several weeks. Demand from producers of betanaphthol has increased along with the gradual recovery of the textile industry. Phthalic anhydride has been moving quite well due to a pickup in plasticizers and alkyd resins. Even though there has been some crude naphthalene available,

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
113.50	113.50	113.50	113.54

(*For Current Prices see Page 9*)

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending November 8, was as follows:—

Ammonia liquid, NH_3	lbs.	1,014,892
Ammonium sulphate	lbs.	36,518,514
Benzol	gals.	3,622,519
Coaltar	gals.	16,279,338
Creosote oil	gals.	674,639
Naphthalene, crude	lbs.	2,595,894
Pyridin, refined	lbs.	30,799
Toluol	gals.	709,838
Xylol	gals.	190,659

For Late Market Developments, See Page 4

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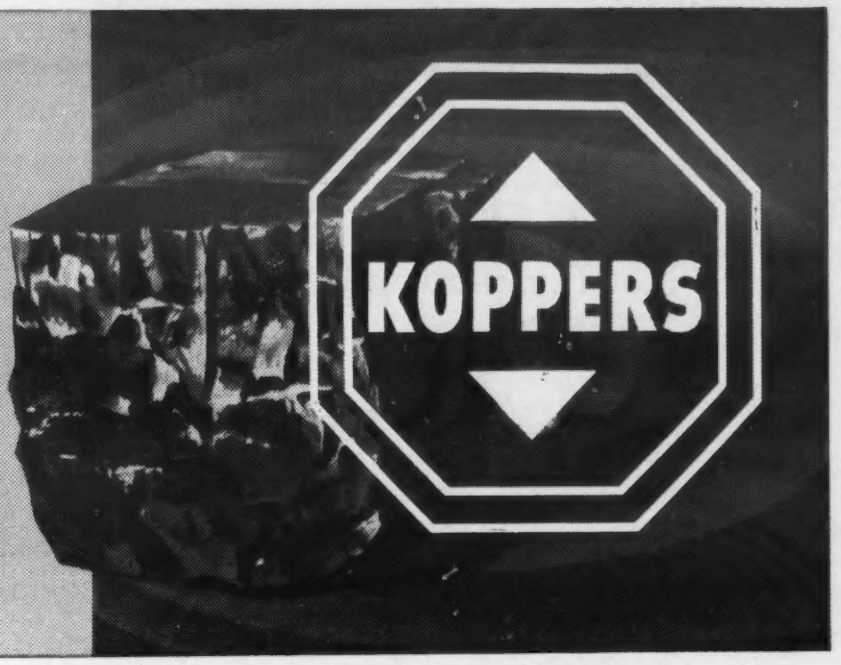

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there has not been enough to cause producer concern. And finally, there has been a slight increase in activity of crude material, it was said. All seemed to add up to a reasonably bright naphthalene picture. Producers did not feel that there would be a recurrence of the critical naphthalene shortages of former times, but they did anticipate a satisfactory demand.

If there was anything especially hopeful about the picture of the domestic market it did not extend itself into the market for 78-degree hot-pressed material, at least at present. Imported material has shown a tendency towards price softness for the past several weeks. Recent fractional reductions have brought the price down to a straight 4c. price, and not too much material was moving even at that price.

The production report from the Tariff Commission indicated that crude output in August totaled 23,699,356 pounds, compared with 16,085,030 pounds in July. Of the August amount, tar distillers produced 14,190,866 pounds and cokeoven operators

In comparison, tar distillation output in July was 13,489,737 pounds, and cokeoven operations accounted for 2,595,293 pounds.

Tar distillers produced an additional 4,967,508 pounds of refined material in August, compared with 3,735,849 pounds in July.

Phenol—Significant improvement in the number of requests for phenol came a little later than it did in the markets for the cresols and cresylic acid. However, the pickup was there, and the increase now looked a bit better than the latter two. Phenolic resins and adhesives have shown sufficient improvement in requirements to lead producers to look ahead for good sales months.

Supplies were adequate for current consumer needs, and no particular shortages were anticipated. Prices have remained at their previously established levels. As the sales of both natural and synthetic material were improving, producers felt that the phenol market looked good.

Tariff Commission production information indicated that total August output of all grades of phenol was 25,017,370 pounds, compared with July output of 24,865,578 pounds.

Pyridin—There has been no particular improvement in the supply position of this tar base. Producers expected that 2-degree pyridin would finish out the year in tight supply. There have been some slight signs that a bit of the pressure on pyridin was easing to some degree. Some falling off was noted from the isoniazid market. The TB drug has lost some of its original lustre in the eyes of many who were first attracted, and has started to settle down tc a level of its own making.

Although some of the pressure for 2-degree pyridin will come off, there are still a sufficient number of other end uses for the material to keep things tight for a while.

Toluol—The market for this aromatic solvent continued to be one of tight supply. Government buying of nitration material and toluol for aviation gasoline has been heavy. Coupled with an increase in industrial demand, it was expected to be sufficiently greater than the supply to keep the market at a status quo for quite a few months.

Tariff Commission figures showed that total output of toluol in August was 5,783,973 gallons, compared with July production of 4,229,956 gallons. Cokeoven operators accounted for 2,781,032 gallons in August and 903,112 gallons in July. The combined output of petroleum operators and tar distillers was 3,002,941 gallons in August, and 3,326,844 gallons in July.

Xylol—The market for this solvent was expected to remain in a balanced state for the rest of the year. Producers were currently moving all of their output. Prices were steady.

Total production of xylol, from all sources, was 5,711,027 gallons in August, as compared with 4,813,089 gallons in July, according to the Tariff Commission.

Intermediates

Acetanilide — Production information from the Tariff Commission indicates that August output was 247,409 pounds, compared with 179,288 pounds in July.

Phthalic Anhydride—There has been a substantial improvement in the amount of activity in this market during the past several weeks. A significant improvement was noted in requirements of phthalic for plasticizers. Demand for this anhydride for production of alkyd resins has also shown gains. Producers were encouraged by the outlook. Supply was ample for consumer needs. Prices remained the same.

Production figures from the Tariff Com-

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mission show that production of phthalic anhydride in August was 16,462,005 pounds, compared with July output of 18,955,354 pounds, and 21,240,577 pounds in August, 1951.

Resorcinol—This market has shown a significant pickup in recent weeks. Demand was better from all directions, one source said. Prices have remained at their old levels. Supply was good enough to accommodate the demand.

Styrene—Producers of the monomer reported that demand has been quite strong from all outlets. One source said that activity was above previous levels. One of the factors contributing to the current heavy requirements was the high volume of activity in polyester resins. Polystyrene plastics were also moving well as they were approaching their peak season, it was added. Another reason for the current levels of buying was seen in the adjustment of inventories to a more satisfactory level. Supplies were adequate to meet the present demand, largely because of increased production facilities.

According to the Tariff Commission, total monomer output of government and privately owned plants combined was 49,860,353 pounds in August, as against 49,393,763 pounds in July.

Humphrey-Wilkinson Mgr.

Howard E. Milius, formerly a member of the sales department of Antara Chemicals, division of General Dyestuff Corporation, New York, has joined Humphrey - Wilkinson, North Haven, Conn., as sales manager. Mr. Milius was engaged in explosives production in the Rapauno works of E. I. duPont de Nemours & Co. during World War II and subsequently became chemical supervisor in that company's Grasselli works.

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N. Y. Textile Chemists To Meet November 21

The New York section of the American Association of Textile Chemists and Colorists will hold its next meeting, November 21 at 8:15 p.m., at Kohler's Swiss Chalet, Rochelle Park, N. J. Speakers will be Charles W. Dorn, director of J. C. Penney Company's research laboratories, and William Armitage and Jack Leach, of Burlington Mills Corporation. Mr. Dorn will discuss "Quality Control in the Manufacture of Consumer Fabrics." Messrs. Armitage and Leach will present a discussion of "Specifications and Controls for Commission Dyeing."

N.E. Chemical Club to Meet

The Chemical Club of New England will hold its fall meeting November 17 in the Parker House, Boston. Alton H. Blackington will show a film entitled "Yankee Newsreel." A cocktail party will be held at 6 p.m., to be followed by dinner an hour later.

British Chemical Producers Ass'n Elects New Officers

The Association of British Chemical Manufacturers has elected the following officers of its council for the 1952-53 term:—President, Sir Harry Jephcott; vice-presidents, Dr. F. H. Carr, Sir Roger Duncalfe, Dr. E. V. Evans, Dr. P. C. C. Isherwood, L. P. O'Brien and C. F. Merriam; chairman, C. G. Hayman; vice-chairman, W. J. Worboys; honorary treasurer, C. E. Carey; honorary vice-presidents, N. N. Holden and Lord McGowan; director and secretary, J. Davidson Pratt, and manager, A. J. Holden.

Int'l Nickel Key Ad Posts to Two

R. L. Lloyd has been appointed general manager of advertising and R. A. Wheeler assistant general manager of advertising of the International Nickel Company, New York, it has been announced by W. C. Kerrigan, vice-president and general sales manager. In consolidating into one department the advertising sections of the nickel sales and Inco nickel alloys departments under Messrs. Lloyd and Wheeler, the following other appointments were made:—M. J. Phillips, assistant to the general manager of advertising, and H. S. Lewis and A. P. More, assistant managers of advertising.

Trade Briefs

The Aluminum Import Corporation has opened a branch sales office in Cleveland, Ohio.

Raymond W. Karst has been appointed general counsel of the Economic Stabilization Agency.

American Cyanamid Company, New York, has named Merrill E. Kilby director of training in its employee relations department.

Carleton B. Edwards, president of Reilly Tar & Chemical Corporation, Indianapolis, Ind., recently received a citation for business achievement from his alma mater, Earlham College, Richmond, Ind.

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Carbide & Carbon Develops Continuous Coal Mining Rig

A continuous coal mining rig that sends a electrically-controlled mining machine 700 feet horizontally into the side of a hill, boring out a stream of coal that is brought to the face by a series of traveling conveyors, has been announced by Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Coproration.

The mining machine is electrically-powered, moves on tractor-treads, and has four intermeshing, rotary cutting heads mounted on the front. It carves out a three by ten-foot hole in the coal seam and forces the mined coal on to the traveling conveyor system. The machine was developed by Carbide & Carbon as part of the development work on its coal-hydrogenation program recently announced.

Gen'l Dyestuff Offers Colors Data

General Dyestuff Corporation, New York, has published a brochure describing the properties and uses of its line of "Heliogen" colors. The booklet gives full information on the powder brands, paste and presscake brands, water-dispersible powder brands and water-dispersible paste brands of "Heliogen" colors. A free copy of "Heliogen Colors" may be obtained from General Dyestuff Corporation, 435 Hudson street, New York 14.

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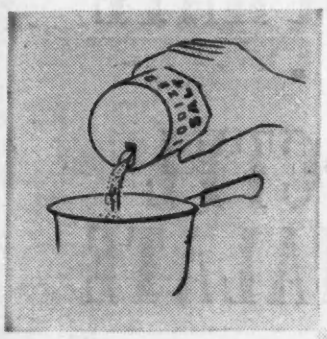

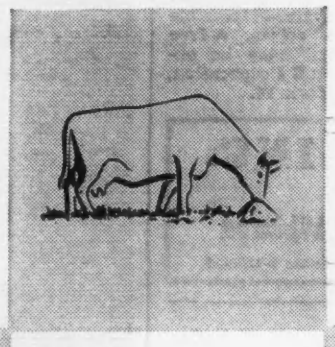

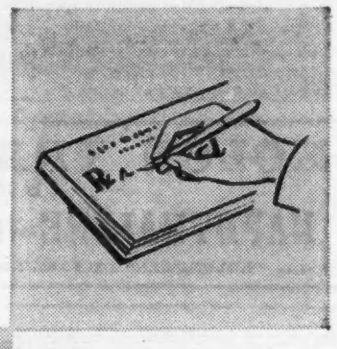

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Baker Chemicals

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Drugs and Fine Chemicals

There were no price changes in this market last week. Following the outcome of the election, there were varied opinions as to what effect the new government administration will have on business but the consensus has been that with defense spending approaching its peak period, the next year would see buying maintained at good levels.

The commodity market was firming up in some quarters, notably, castor beans. Sellers were offering beans at quotations which have tended to advance during the past week. Offerings of beans were on the tight side, according to reports, with buyers becoming more anxious to pay the asking price although previously they had been holding back awaiting a break in the market.

As previously reported, the demand for lanolin continues to exceed supply. Dollars-and-cents ceiling prices were set for refined grades of lanolin earlier this year. Last week amendment No. 1 to CPR 146, became effective. This amendment states that manufacturers and processors of wool grease and lanolin must now apply customary discounts and allowances, based on terms of sale or differences in classes of purchasers, to the uniform dollars-and-cents ceiling prices for their products which have been set f.o.b. their processing plant. This action was reportedly taken to preserve the normal industry practice and enable wholesalers, distributors and resellers to buy at discounts under the prices ordinarily charged consuming purchasers.

A reduction in the bulk neomycin price was announced last week. Although there was no actual price reduction, that is, the price per gram remains the same, the reduction represents a 33⅓ percent cut, figured in terms of neomycin base activity. Until last week, bulk neomycin was priced on the basis of net weight. Under the new standard prescribed by the FDA, the neomycin price is based on neomycin base activity. This latest price cut, the second this year, was reportedly a result of increased savings in production costs due to expanded output.

Among the solvents, demand was going along at a better rate than earlier in the year. Demand for ethyl alcohol was increasing with special emphasis on the specially denatured formulae which are used in the manufacture of Christmas specialty items. Acetone was in good demand and was in some cases, somewhat short. The butyls were freely available with inquiry reportedly increasing, according to some observers in the trade.

Acetanilide — Demand for the USP grade of acetanilide continued small. Supplies were ample according to reports and prices remained unchanged. Most former manufacturers of this item have been out of this market for some time since consumption has dropped down to a trickle of what it once was. Some drug manufacturers still utilize acetanilide in their formulations, but acetophenetidin and newer compounds have usurped the position once held by acetanilide as an ingredient in antipyretic compounds.

The Tariff Commission reports that combined production of both technical and USP grades was 247,409 pounds in August, 1952, compared to the 179,288 pounds turned out during July this year.

Acetone—Demand for this solvent was said to be fair to good depending upon producer queried. Undoubtedly demand has improved in the past few months with the resurgence of the textile industry. Rayon production, which uses tremendous quantities of acetone, has been steadily on the upgrade.

The quantity of acetone used in the production of explosives was reportedly on the increase as a result of the defense program which has been said to be approaching its peak. Supplies of acetone, although tight in a few instances, have been generally ample on an industry-wide basis.

Production of acetone in August, 1952, aggregated 30,313,643 pounds compared to the 25,983,043 pounds turned out in July this year. These figures were from the United States Tariff Commission.

Alcohol—Demand for ethyl alcohol continues below what most producers consider to be good. Supplies remained ample for current inquiry but production cutbacks have succeeded in lowering the size of inventory stocks once held in producers tanks. This, of course, has been the aim of both fermentation and synthetic producers in view of the diminished rate of demand which has characterized this market for more than a year.

Alcohol prices remained formally unchanged but competition has been so keen for available business that price shading of at least 5 cents below the set 55c. per gallon price has become virtually mandatory if a producer hopes to compete at all. It could be said, therefore, in light of the present market, that alcohol is currently priced at 50 cents. There has been some further shading below the 50 cent figure but this has been held down to a minimum, according to reports.

Demand for some specially denatured formulae has been good for the past month since the manufacture of Christmas specialties got under way.

The Alcohol and Tobacco Tax Division of the Bureau of Internal Revenue, Treasury Department, on November 6 released data on the supply, production, withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of September, 1952, in comparison with September, 1951.

Production

	Gallons 1952	1951
†Ethyl	36,438,531	40,944,565
*Completely denatured	54,546	95,059
*Specially denatured	16,932,595	21,326,086

Withdrawals

†Ethyl tax paid	2,057,326	3,595,118
tax free	31,727,188	50,853,838
*Completely denatured	63,326	86,920
*Specially denatured	16,735,863	22,305,492

Stocks

†Ethyl	87,429,794	101,680,728
*Completely denatured	26,112	60,227
*Specially denatured	7,300,054	10,192,235

*Wine gallons. †Proof gallons.

According to the Alcohol and Tobacco Tax division, materials used in industrial alcohol plants in September, 1952, and September, 1951, were as follows:—

	Pounds 1952	1951
Corn and corn products	8,963,564	22,166,007
Rye and rye products		158,040
Malt and malt products	1,086,897	8,044,241
Wheat and wheat products	1,639,020	17,452,600
Sorghum grain and sorghum grain products	6,120	36,286,916
Other grain	268,580	14,796,813
Total grain	11,924,181	98,904,617
Ethylene gas	8,987,980	6,327,152
Other materials	230,213	236,875

	Wine gallons 1952	1951
Molasses	12,220,588	16,482,552
Ethyl sulphate	15,109,787	13,351,123
Sulphite liquors	22,830,000	19,490,900
Other materials	3,389,268	4,144,296
†Products used in redistillation	2,771,917	5,025,221

†Proof gallons.

Ammonium Thiosulphate—This material is available in two grades, ammonium thiosulphate crystals and the 60 percent solution, photo grade. The larger part of the sales according to the trade have been in the latter grade. The market for the 60 percent solution has been steadily growing due to the increasing use of liquid rapid-type photographic fixers in industrial photography and in X-ray work. The prevailing carlot drum price was 6½c. per pound, f.o.b. works.

Ammonium thiosulphate crystals have been slowly gaining acceptance as an ingredient in special photographic formulations. Government purchases of this material in small quantities have been increasing, it was said. The price of this grade in 100 pound drums was currently at 65c. per pound. Supplies of both the solution and the crystals were reported to be readily available.

Castor Oil—The commodity market in castor beans was definitely firmer and prices continued to advance. Beans were offered f.o.b. Brazilian ports, from $195 to $200 per long ton. Business was being done at the above figures, according to trade observers, with sales predominating at the lower price.

Arrivals of beans at Philadelphia and

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
93.00	93.00	92.73	100.77

(*For Current Prices see Page 9*)

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ADDITIVE*	Edible oil *only* for standardization	None	Edible oil *only* for standardization
STABILITY	Excellent	Excellent	Excellent
USAGE	For manufacture of tablets, aqueous dispersions, capsulated products	For manufacture of oil-free preparations (aqueous) dispersions)	For manufacture of oil solutions, gelatin capsules and tablets
NOTES	1	2	

* Antioxidants or other additives can be included on customer's specifications. Containers will be labeled accordingly. Data on antioxidants available on request.

Notes:

(1) Does not crystallize as readily during storage and handling as higher concentrations of vitamin A palmitate and acetate.

(2) More susceptible to crystallization than type P 1 M O but can be handled without difficulty when using certain precautions.

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Type P 1.8 vitamin A palmitate—1,650,000 to 1,800,000 U.S.P. (XIV) units per gram.

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Photomicrograph of vitamin A palmitate crystals, greatly enlarged.

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New York ports last week amounted to 1,083,150 pounds, as compared with 850,350 the previous week, and 278,100 during the corresponding week of last year. Imports of castor oil at these ports last week totaled 3,972,000 pounds, as against the 980,000 pounds brought in during the previous week, while none was landed during the corresponding week of 1951.

Total imports of beans so far this year at Philadelphia and New York amounted to 101,242,550 pounds, compared with 128,258,350 pounds during the corresponding period of 1951. Total oil imports at these ports so far this year amounted to 63,976,550 pounds, as against the 49,588,729 pounds brought in during the same period of last year.

Gelatin—Total gelatin production during September this year aggregated 2,886,538 pounds compared to the 3,195,745 pounds turned out in August and the 3,191,768 pounds in September last year.

Classified by type, production in September included 2,473,786 pounds edible gelatin and 239,706 pounds pharmaceutical grade. Figures were not given for technical and photographic grades. As a comparison edible gelatin production during August totaled 2,274,432 pounds while 197,462 pounds technical grade were reported. Figures on pharmaceutical and photo grade production were not given for that month.

Shipments of gelatin during September, 1952, totaled 3,274,600 pounds of which 2,411,452 pounds were edible grade and 259,601 pounds pharmaceutical. August shipments totaled 3,745,155 pounds and included 2,795,893 pounds edible grade and 215,039 pounds technical. Figures for pharmaceutical and photo grades were not given.

Total gelatin stocks at the end of September amounted to 8,834,410 pounds compared to the 9,222,472 pounds on hand at the end of August. Classified by type, the September stocks included 4,254,472 pounds edible grade, 1,042,618 pounds technical gelatin, 697,011 pounds pharmaceutical and 2,840,309 pounds photographic.

Lanolin—As reported earlier, demand for lanolin continues to outpace supply. The prospects for any early improvement in the current situation were dim, according to trade observers. Wool scouring operations in this country have been quite a bit below what is considered necessary to fill the country's increasing lanolin requirements.

Pricewise, refined grades of lanolin remained at the ceilings set earlier this year under Ceiling Price Regulation 146. However, according to amendment No. 1 to this regulation, which became effective

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November 3, 1952, manufacturers and processors of wool grease and lanolin must now apply customary discounts and allowances, based on terms of sale or differences in classes of purchasers, to the uniform dollars-and-cents ceiling prices for their products, which have been set f.o.b. processing plant.

CPR 146, as issued June 3, 1952, made no provision with respect to the maintenance of customary discounts and allowances. As now amended, manufacturers and processors are required to apply the same discounts and allowances based on terms of sale or differences in classes of purchasers, as was their custom during the period December 19, 1950, to January 25, 1951.

This action was reportedly taken to preserve the normal industry practice and enable wholesalers, distributors and resellers to buy at discounts under the prices ordinarily charged consuming purchasers.

Milk Powder—The market in nonfat dry milk solids was barely steady. Offerings were generally relatively heavy. Buying interest was generally confined to immediate needs only. In many instances price cutting was reported.

Milk powder imports for the week ended October 23 amounted to 200 bags from Germany; 1,734 bags and 12 cases from Holland; and 300 cases from Norway. Also imported were 2,775 cartons of malted milk from England.

Imports of whole milk and buttermilk powder for the first eight months of 1952 amounted to 27,383,873 pounds. Of the total, 21,100,000 pounds were whole milk powder and 6,200,000 buttermilk powder. Using a rough calculation, this is equivalent to 8,500,000 pounds of butter and 20,000,000 pounds of nonfat dry milk solids. For the entire year of 1951, only 9,000,000 pounds of whole milk powder and 1,600,000 pounds of dry buttermilk powder were imported.

Molasses—Feed molasses prices were unchanged in the Gulf area during the week ended November 5, 1952. At other points prices were generally lower. At New Orleans, cane blackstrap was offered at 9c. per gallon in tankers, while at New York, it was 10 cents. On the west coast, the cane blackstrap price was down $3 per ton from $20 to $17.

Demand for feed molasses continued good at all points with supplies adequate at most points with the exception of Savannah which has virtually a perennial shortage. A tankcar shortage was said to be evident throughout the Gulf area and at some points on the east coast.

It doesn't appear likely that the price for feed molasses will continue to decline

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at the rate which has been characteristic for this commodity during the past several months. Aside from the blackstrap offered at Gulf points at 9c. per gallon, the 1952 Cuban blackstrap has been offered at 7c. per gallon f.o.b., Cuba. The material offered at Gulf ports priced at 9 cents is approximately equally priced when shipping costs are taken into consideration.

Neomycin—A 33⅓ percent reduction was announced last week on prices of neomycin bulk. This was the second 33⅓ percent reduction in the price of this antibiotic since early this year. This latest reduction was said to reflect savings in production costs made possible by larger volume.

The new price of neomycin sulphate was 60c. per gram based on neomycin base activity which was said to be the new standard prescribed by the FDA. The reduction, accordingly, represents a 33⅓ percent price cut, figured in terms of neomycin base activity. Previously FDA regulations required the price of neomycin sulphate to be figured on the basis of net weight. The old price of 60c. a gram, figured on net weight, actually was the equivalent of 90c. per gram when figured according to the new FDA ruling, based on an activity base, as each gram contains .66 grams of neomycin base activity.

According to the producer, new uses have been found for neomycin in veterinary medicine in addition to broad clinical uses in the treatment of infections of the skin, eye, ear, nose and gastro-intestinal tract. Recent research in the field of veterinary medicine, it was said, suggests use of neomycin in the treatment of mastidis, a disease estimated to cause a considerable loss in dairy products annually.

Phloroglucinol—The demand for phloroglucinol, C.P., for reagent purposes continues small but steady with supplies adequate for current inquiry. Prices for this grade ranged from $17 to $17.75 per pound, depending upon quantity.

Demand for the technical grade of phloroglucinol was reportedly on the increase as a result of stepped up use as a diazo blackline semi-wet developer. This increase was thought to be due to an increase in the various engineering projects involved in the plant expansion and building program. This grade was pegged at $10.45 per pound, f.o.b., works, in 100 pound drums.

Demand for phloroglucinol, technical, was reportedly fair. This material is largely consumed in the textile industry and of course, the textile industry has been operating below capacity for some time. This grade was currently offered at $6.40 per pound in 100 pound lots. The supply was said to be ample.

Sugar—The Department of Agriculture announced recently that distribution of sugar in the continental United States during the week ended October 25, 1952, totaled 155,151 short tons, raw value, compared to 160,374 tons, same basis, dis-

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tributed during the corresponding week last year.

Total distribution for civilian and military use from January 1 to date aggregated 6,849,415 short tons, raw value, compared to 6,572,423 tons distributed during the corresponding period last year.

The U. S. Department of Agriculture has issued a special report on the status of the 1952 sugar quotas for the various sugar-producing areas supplying the United States market.

It is prepared to include recent revisions of the quotas and a more accurate presentation of balances in the prorations of the full duty countries. The report shows that the quantity of sugar charged against the quotas as of October 24, 1952, amounted to 6,761,014 short tons, raw value (partly estimated).

The report includes sugar from all offshore areas recorded as entered or certified for entry, before October 24, 1952, sugar marketed by the beet area, and an estimate of the quantity marketed by the mainland cane area. The figures are subject to change after final data are available.

CCC Offers Linseed Oil At 14 Cents for Export

Government stocks of raw linseed oil amounting to 186,300,000 pounds, have been placed on the market for sales to the export trade at the price of 14 cents a pound, f.o.b. tankcars at storage location by the Commodity Credit Corporation, it was announced by the agency last week. Heretofore, the oil has been available for export at the same price as sales to the domestic trade—the market price on the date of sale.

The November commodities list of the agency. also showed that nonfat dry milk solids, refined cottonseed oil, and flaxseed are being offered for sale during the month. The cottonseed oil, totaling 125,000,000 pounds, is being offered for export sale at the market price, f.o.b. tankcars at points of storage location, and for domestic sale at the market price or 17¾ cents per pound, whichever is higher, f.o.b. tankcars at points of storage.

The nonfat dry milk solids and the flaxseed are being offered to both export and domestic buyers with no differential in price. The skim milk is the spray process type of 1952 production, amounting to 23,000,000 pounds, and is being offered at 18 cents a pound, "in store" at location of the stock. The flaxseed supply amounts to 144,000 bushels, and is being offered at the following price:—

"Market price on date of sale at place of delivery provided delivery takes place within fifteen days unless otherwise agreed upon, but not less than the following:—$4.36 per bushel, No. 1 grade, basis in store, Minneapolis. For other markets and grades, adjust by market differentials."

King Drug Company Suit Terminates in Compromise

The W. H. King Drug Company civil suit, long entangled in the North Carolina courts, was ended October 31 in Raleigh Superior Court with the signing of a judgment consented to by both the plaintiffs and defendants.

The judgment, rendered by Judge Q. K. Nimocks, jr., was reached after the resignation of one of the company's trustees, a defendant in the case which began in January of this year. The resignation of Earle Jones and certain concessions made by the defendants, Ruth I. Page and H. G. Starling, paved the way for the judgment.

The original suit, centering on a trust established by B. F. Page for his daughters, Elizabeth Page Erickson and Helen Page Gaither, charged irregularities in the management of drug companies which expanded from the King firm. The action, brought by Mrs. Erickson and Mrs. Gaither, charged Mr. Starling with violating his duty as one of the trustees.

Defendants in the suit were Mr. Starling, Mr. Jones and Mrs. Page, individually and as trustees; Mrs. Page executrix of the estate of her late husband, B. F. Page; W. H. King Drug Company; Peabody Drug Company, and Carolina Surgical Supply Company.

Trade Briefs

The University of Illinois college of Pharmacy has named Ned O. Haney to its advisory committee.

Wildroot Oil Company has named E. Ferguson Maloney regional sales manager in Canada, with headquarters in Toronto.

Burroughs Bros. Manufacturing Company, formerly owned by Mutual Drug Company, has been taken over by B. Gahaff and N. W. Mailman.

Ships' Stores Certificates Must Be Renewed in Jan.

Manufacturers of certified ships' stores and supplies of a dangerous nature have been notified by the United States Coast Guard that the automatic renewal of their certificates year after year has come to an end and all manufacturers desiring to have their certificates renewed must file an application with the commandant next January.

The requirement that certificates be renewed every year was waived on January 12, 1943, for the duration of World War II and six months thereafter. The President proclaimed the termination of the war last April 28 and thus the order waiving the renewal requirements came to an end on October 28. The Coast Guard, however, has extended certificates through next February.

In applying for renewal of the certificates next January, manufacturers must affirm that the characteristics of the approved product or article have not been altered or changed in any respect and that it is the manufacturer's intention to continue to market the product. Failure to submit such applications during January will automatically serve to cancel these certificates.

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Monsanto Shifts McCullough, Elevates 2 at Mound Lab

Monsanto Chemical Company, St. Louis, Mo., has announced that Dr. C. Rogers McCullough, who had been director of Monsanto's atomic-electric project since June, 1951, has returned to the general development and patent department. At the same time the company revealed that Thomas P. Tierney has been promoted to the new position of administrative director of Monsanto's Mound Laboratory, and that William I. Tierney has been appointed director of the personnel relations division of the laboratory.

Dr. McCullough is the author of a number of patents and is the co-inventor of aroclors for electrical uses. Much of his work with Monsanto has been with phosphorus and its compounds. He was with the Federal Phosphorus Company, Anniston, Ala., at the time that organization was acquired by Monsanto in 1935. During World War II, Dr. McCullough became project manager for the development of rocket propellants when a group leader at Monsanto's central research department. In the spring of 1945, he was assigned to direct the construction of the first electrical power plant to be operated by atomic energy.

Thomas Tierney, who previously had been director of the personnel division of the laboratory, has been associated with Monsanto since 1938. He has been employed in the accounting department, the organic chemicals division's sales department and as labor relations attorney. William Tierney joined Monsanto in 1949 as an accountant. A year later he became personnel supervisor of the Mound Laboratory and since February of this year had been personnel manager.

Heyden Corp. Offers New Antibiotic Feed Supplement

A new, more flexible type of antibiotic feed supplement in concentrated form, claimed to be the first to be custom-made to meet the specialized formulation needs of suppliers of animal feed supplements, is being introduced by Heyden Chemical Corporation under the trade name "Pro-Gro," Simon Askin, president, has announced.

"This unique antibiotic concentrate consisting of 80 percent high potency crystalline procaine penicillin 'G' and a 20 percent diluent is being offered to the feed supplement trade with a choice of diluents, tailored to meet their individual formulation requirements," Mr. Askin said. "The sale of 'Pro-Gro' will be in bulk only in line with Heyden's long established policy."

Trade Briefs

Raymer Pharmacal Company has named Edward S. McCabe medical director.

Mead Johnson & Co. has named Dr. Ben King executive director of research.

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Botanicals New Crop Stocks Reported Low

—*Continued from page 4*

crude drugs to this time, OPD learned, and an unanswered question of all dealers was:—"Why is Europe no longer interested in American botanicals?"

Scarce Botanicals Listed

The shortage in tonnage items was considered serious, but that existing in drugs of limited distribution was often termed "appalling," dealers adding that the extent of the shortage "will depend on a return of normal demand." Asked to list the botanicals definitely very scarce at this time and which, in the event of a return of normal demand during this consuming year, might become unobtainable by buyers of small quantities on a non-contract basis, dealers singled out forty-five items. Representing a composite of dealers' opinions, they are tabulated below:—

Angelica root
Balm of gilead buds
Balmony leaves
Bath root
Bitter root
Blackberry root
Black haw tree bark
Blood root
Blue cohosh root
Catnip leaves, herb
Cottonroot bark
Cleavers herb
Cranesbill root
Culvers root
Fringetree root bark
Horsenettle root
Huckelberry leaves
Indian turnip
Jersey tea root bark
Lady's slipper root
Life root plant
Liverwort leaves
Maiden hair herb
Mandrake root
Mullein leaves
Passion flower herb
Pennyroyal leaves, herb
Pink root
Pleurisy root
Red shank root bark
Samson snake root
Serpentaria root
Solomon seal root
Sassafras root bark, natural rossed, bright
Spikenard root
Squaw vine
Stone root, cut
Wahoo root bark tree bark
White pine bark, rossed
Wild cherry bark, thick, natural rossed
thin, natural rossed
Wild lettuce leaves
Wild plum bark
Witch hazel leaves, bark
Yellow root
Yellow parilla root

Causes of Small Crop

Two causes seem to have made the 1952 crop the smallest within the knowledge or experience of present day dealers and collectors. Chronologically, one was man-made and the other was the result of that natural phenomenon—the weather.

First, the man-made cause. After the heavy buying of consumers following the Korean crisis in June, 1950, buyers withdrew practically entirely from the market. Sales dwindled progressively in 1951 and the spring of 1952 found primary market dealers highly cautious about buying. They cut purchase prices sharply in their first buying lists. They looked over their carryover inventory, found it swollen because of the bumper crop in 1951 and the sharp drop in consumer buying in that year. They then eliminated many items from the wanted list, curbed the quantities they were willing to purchase, and apparently aimed to buy conservatively. Field workers revolted, in effect, stopped collecting, and turned to agriculture and industry where high wages and short hours prevailed. Deliveries to warehouses dried up, so much so that dealers finally had to restore many of their spring price reductions. This man-made program definitely cut the 1952 crop.

Effects of Weather

Second, the weather. Early in the collection season, drought seized wide areas in the primary market. Long, prolonged spells of blisteringly hot weather accompanied an almost total lack of rain. Flowers, herbs, leaves and berries were burned to a crisp long before maturity. Root crops were baked in soil that became iron-hard and foiled the efforts of the few diggers that tried to collect them. Hot, searing, withering, baking high temperatures were almost continuous. The almost total lack of rain brought water shortages that, in October, kept the city of Asheville, N. C., under water rationing. Car washing and all other unessential use of water was banned and the Catawba River yielded water for only two hours a day when tapped by municipal pumps.

Thus, the smallness of this year's botanical drug collections was, in the first instance, a man-made situation, with the weather more than finishing the job. How serious the situation may be will be determined by consuming demand in the 1952-1953 season. If domestic and export buying remain at 1951-1952 levels, the consensus of trade opinion is that, with the exception of prices which are apt to remain depressed, probably no serious results will follow. On the other hand, it was stressed, if domestic and export needs return to normal volume, manufacturing consumers will not only have a hard time in getting botanicals but will also probably have to pay steadily advancing prices for what they can get.

Acknowledgment is made to the many primary market collectors and dealers without whose earnest cooperation and heart-warming hospitality this survey would have been impossible.

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AMMONIUM SULPHATE—25 bbls, E M Sergeant Pulp & Chemical Co, Rotterdam
ANILIN DYES—18 dms, Geigy Co, Havre
23 dms, Sandoz Chemical Works, Havre
1 dm, Hampton Products, Rotterdam
1 bbl, Hensel Bruckmann & Lorbacher, Rotterdam
9 dms, Hensel Bruckmann & Lorbacher, Rotterdam
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15 dms, C A Haynes, Rotterdam
27 dms, Ciba Co, Rotterdam
16 dms, C A Haynes, Amsterdam
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ANTHRAQUINONE POWDER—268 kgs, Bank of Manhattan Co, Liverpool
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500 bgs, Brown Bros, Port Sudan
154 bgs, Guaranty Trust Co, Port Sudan
250 bgs, Liverpool
150 bgs, Port Sudan
ARROWROOT FLOUR—709 bgs, American Key Products, Brisbane
BARBASCO POWDER—2,000 bgs, Astoria Pan-Americana, Iquitos
520 bgs, H A Astlett & Co, Iquitos
BARIUM ORE—500 bgs, Warrou Trading Agency, Cabedello
BEESWAX—— bgs, D Steengrafe & Co, Santiago
22 bgs, E A Bromund, Callao
10 bgs, General Import Distr, Havana
34 bgs, Curacao Trading Co, Ciudad Trujillo
50 bgs, Porcella Vicini, Ciudad Trujillo
30 bgs, Ciudad Trujillo
200 blks, Djibouti
BERGAMOT OIL—4 hlf cs, Tombarel Products, Messina
5 hlf cs, Corn Exchange Bank, Messina
BERYL ORE—1,000 bgs, South American Minerals & Mdse Corp, Cabedello
BETAOXYNAPHTHOIC ACID—100 dms, Heemsoth Kerner, Hamburg
BLEACHING POWDER—200 pkgs, Chemical Mfg Co, Liverpool
BONEMEAL—385 bgs, A M Goldstein, Beirut
400 bgs, Jung Forwarding Co, Liverpool
CADMIUM—22 cs, Rosenthal Bercow, Yokohama
40 cs, American Metal Corp, Kobe
5 cs, Intercontinental Metal Corp, Hamburg
CALCIUM CARBONATE—340 bgs, H J Baker & Bro, Liverpool
SULPHATE—25 bbls, E M Sergeant Pulp & Chemical Co, Rotterdam
CANANGA OIL — 1 dm, American Aromatics, Tanojong Priok
CARAWAY SEED—100 bgs, C M van Sillivoldt, Rotterdam
200 bgs, R J Spitz, Rotterdam
200 bgs, Levy & Levis Co, Rotterdam
100 bgs, R L Friedler, Rotterdam
150 bgs, Rotterdam
CARNAUBA WAX—223 bgs, Corn Exchange Bank, Fortaleza
1,399 bgs, Fortaleza
CASEIN—4,000 bgs, N Y Trust Co, Buenos Aires
1,300 bgs, F H Paul & Stein Bros, Montevideo
1,600 bgs, Borden Co, Auckland
300 bgs, F H Paul & Stein Bros, Buenos Aires
800 bgs, Borden Co, Buenos Aires
1,100 bgs, American Cyanamid Co, Buenos Aires
1,100 bgs, A J Mills & Co, Wellington
600 bgs, Nordisk Transport, Oslo
CATALYST—1 dm, E I duront de Nemours Co, Montevideo
CASSIA—383 pkgs, Rotterdam
CASTOR BEANS—3,225 bgs, Wessel Duval & Co, Fortaleza
625 bgs, Spencer Kellogg, Bahia
371 bgs, Spencer Kellogg, Port Au Prince
3,000 bgs, Spencer Kellogg, Rio de Janeiro
OIL—680 tons, Baker Castor Oil Co, Bombay
213 tons, Archer-Daniels Midland Co, Bombay
200 tons, Rohm & Haas, Bombay
183 tons, Argo Products Corp, Bombay
198 tons, Recife
CELERY SEED—55 bgs, Otto Gerdau, Marseilles
CHESTNUT EXTRACT — 2,000 bgs, Barkey Importing Co, Genoa
2,020 bgs, International Expediters, Genoa
3,000 bgs, Chase National Bank, Naples
1,000 bgs, Leghorn
1,000 bgs, Naples
CHILLIES—64 bgs, Liverpool
CINCHONA PRODUCTS—3 cs, American Quinine Co, Hamburg
CHLORAL HYDRATE—4 dms, Liverpool
16 kgs, Liverpool
CINNAMON QUILLS—100 bls, Chevalier & O'Connor, Colombo
COD OIL—100 dms, E F Drew & Co, St Johns
CODLIVER OIL—400 dms, Manufacturers Trust Co, Reykjavik
100 dms, Maxim Chemical Co, Reykjavik
130 dms, Peder Devold Oil Co, Reykjavik
5 dms, Arista Oil Products Co, Reykjavik
150 dms, E F Drew & Co, Reykjavik
200 dms, Reykjavik
COLUMBITE ORE—2,303 bgs, Union Carbide & Carbon Corp, Lagos
140 bgs, Derby & Co, Lagos
COPAIBA BALSAM—5 dms, Wessel Duval & Co, Manaus
5 dms, George Luecders & Co, Manaus
3 dms, Lautier Fils Inc, Manaus
20 dms, Bankers Trust Co, Belem-Para
COTTON LINTERS—75 bls, M O Schimmel Corp, Hamburg
334 bls, Kauders Steuber, Hamburg
230 bls, Riverside Mills, Rio de Janeiro
CREAM OF TARTAR—200 bgs, T M Duche & Sons, Genoa
260 bbls, Bank of N. Y, Barcelona
CRESYLIC ACID—699 dms, H A Gogarty, Liverpool
60 dms, American Cyanamid Co, Liverpool
CUBE ROOT—1,394 bls, Hecht Levis & Kahn, Iquitos
CUMIN SEED—193 bgs, J J Duffy, Khorramshahr
84 bgs, Khorsrovshahi Co, Khorramshahr
DAMMAR GUM—25 cs, S Winterbourne & Co, Singapore
99 bgs, S Winterbourne & Co, Singapore
DERRIS ROOT POWDER—159 bgs, Callao
DEXTRIN—10 bls, Arabol Mfg Co, Rotterdam
300 bgs, Paisley Products, Rotterdam
DIACETYL—1 cs, A Verley & Co, Hamburg
DIBROMOBENZANTHRONE—4 dms, Wilson Export & Import Corp, Amsterdam
DICHLOROANILIN—5 dms, Heemsoth Kerner, Antwerp
DOGWOOD BARK—29 bgs, Lydia E Pinkham Medicine Co, Kingston
EUCALYPTUS OIL—7 dms, Commercial Banking Co of Sydney, Melbourne
FENNEL SEED—200 bgs, Joel Bieler Co, Buenos Aires
FISHLIVER OIL—15 dms, Strong Cobb & Co, Yokohama
2 dms, Arista Oil Products Co, Yokohama
4 dms, H A Gogarty, Yokohama
FISHMEAL—493 bgs, Coldwater Sea Food Corp, Reykjavik
5,569 bgs, Ralston Purina Co, Reykjavik
FUEL OIL—194,000 bbls, Esso Export Corp, Aruba
106,552 bbls, Central Petroleum Corp, Punta Cardon
50,968 bbls, Metropolitan Petroleum Corp, Curacao
221,660 bbls, Hess Inc, Punta Cardon
355,727 bbls, Esso Standard Oil Co, Aruba
152,042 bbls, Asiatic Petroleum Corp, Curacao
102,632 bbls, Mexican Petroleum Corp, Curacao
60,583 bbls, Mexican Petroleum Corp, Aruba
FULLERS EARTH—20 bgs, Magnolithe Co, Bremen
GALL—9 dms, International Packers Ltd, Lyttleton
6 cks, National City Bank, Lyttleton
2 cks, International Packers Ltd, Napier
OX—4 cs, Bunge Corp, Dunedin
4 dms, J M Rogers Co, Wellington
1 bbl, J M Rogers Co, Madras
GELATIN—25 bls, Coignet Chemical Co, Antwerp
510 bgs, Transatlantic Animal By-Product Corp, Bremen
306 bls, Transatlantic Animal By-Products Corp, Rotterdam
GINGER ROOT—103 bgs, Landes & Balint, Kingston
GLUE—200 bgs, H Rothschild, Antwerp
300 bgs, Transatlantic Animal By-Products Corp, Antwerp
STOCK—366 bdls, John Gorvers, Barranquilla
277 bdls Herman Hollander, Barranquilla
1,412 seroons, H Remis, Cuidad Trujillo
GLYCERIN—148 dms, International Packers Ltd, Santos
200 dms, C J Schellings & Co, Liverpool
GYPSUM—2,440 tons, Newark Plaster Co, Walton
10,307 tons, U S Gypsum Co, Hantsport
9,043 tons, National Gypsum Co, Little Narrows
200 bgs, Hammill & Gillespie, Liverpool
HOOF, HORN MEAL—1,000 bgs, Fortaleza
INFUSORIAL EARTH—2,032 bgs, Johns Manville Corp, Hamburg
IRON OXIDE—448 bgs, Whittaker Clark & Daniels, Manchester
RED—1,087 bgs, Smith Chemical & Color Co, Malaga
JUNIPERBERRY OIL—1 dm, Fritzsche Bros, Hamburg
KARAYA GUM—307 bgs, Innis Speiden, Bombay
686 bgs, Stein, Hall & Co, Bombay
123 bgs, J B Gruman Co, Inc, Bombay
114 bgs, IntraMar Shipping Co, Bombay
61 bgs, Paul A Dunkel & Co, Bombay
614 bgs, Block Drug Co, Bombay
61 bgs, Colony Import & Export Corp, Bombay
307 bgs, Jacques Wolf, Bombay
61 bgs, Wessel Duval & Co, Bombay
246 bgs, Morningstar Nicol, Bombay
KIESELGUHR—1,980 bgs, Johns Manville Corp, Bordeaux
1,042 bgs, Leghorn
LAUREL LEAVES—41 bls, Piraeus
LEMON OIL—4 hf cs, Tombarel Products, Messina
10 hf cs, Corn Exchange Bank, Messina
9 hf cs, Lo Curto & Funk, Messina
5 dms, Lo Curto & Funk, Messina
10 hf cs, Ungerer & Co, Messina
20 hf cs, Citrus & Allied Essential Oils, Messina
2 dms, Citrus & Allied Essential Oils Co, Santiago
LEMONGRASS OIL—1 dm, Norda Essential Oil & Chemical Co, Port Au Prince
LICORICE ROOT—20 bgs, Produce Brokers, Hamburg
120 bgs, Lattakia
22 bls, Lattakia
LIME OIL—2 cs, W J Bush & Co, Port of Spain
LITHIUM STEARATE—200 bgs, Liverpool
LIVERMEAL—672 bgs, H J Baker & Bro, Lyttleton
1,006 bgs, H J Baker & Bro, Wellington
262 bgs, Hollinghurst & Co, Wellington
LOCUSTBEAN GUM—600 bgs, Guaranty Trust Co, Rotterdam
64 bgs, Morningstar Nicol, Liverpool
100 bgs, T M Duche & Sons, Genoa
400 bgs, Genoa
LOGWOOD EXTRACT—100 cs, American Dyewood Co, Kingston
MACE—13 cs, Catz American Co, Macassar
14 cs, Landes & Balint, Macassar
14 cs, Becker Mayer Seed Co, Macassar
20 cs, Internatio Rotterdam, Macassar
14 cs, Catz American Co, Grenada
17 cs, C T Wilson, Macassar
15 cs, A G Dunn, Macassar
MAGNESITE—1,000 bgs, Golwynne Chemicals Corp, Madras
MAGNESIUM CARBONATE—25 cs, National City Bank, Liverpool
200 bgs, Reheis Co, Liverpool
MANGROVE BARK—1,473 bgs, Grace National Bank, Esmeraldas
733 bgs, Manufacturers Trust Co, Esmeraldas
1,900 bgs, Bank of N Y & Fifth Ave, Cristobal
EXTRACT—1,900 bgs, Saxe Cutch Corp, Sandakan
20 bgs, Liverpool
MARJORAM—400 bgs, W R Grace & Co, Arica
120 bls, Landes & Balint, Marseilles
MENTHOL—15 dms, Marseille
MENUKELIVER OIL—3 dms, Consumers Import Co, Yokohama
MILK POWDER—1,000 bgs, Aero Sea Shipping Co, Rotterdam
200 bgs, Rotterdam
SUGAR—90 dms, Rotterdam
MUIRAPUAMA ROOT—10 bls, S B Penick & Co, Manaus
MUSTARD SEED—300 bgs, Frank Tea & Spice Co, Rotterdam
MYROBALANS—1,426 bgs, Chemical Bank, Visakhapatnam
1,045 bgs, Bank of N Y, Visakhapatnam
1,687 bgs, First National Boston, Visakhapatnam
970 bgs, Barkey Importing Co, Bombay
729 bgs, River Plate Import & Export Corp, Bombay
NAPHTHALENE—667 bgs, Interocean Chemicals & Minerals Corp, Liverpool
998 bgs, Rotterdam
NICKEL CARBONATE—66 kgs, E F Drew & Co, Bremen
SULPHATE—20 bbls, Public National Bank, Amsterdam
12 kgs, E F Drew & Co, Bremen
NIGER SEED—492 bgs, Hartz Mountain Products, Visakhapatnam
NUTMEGS—65 bgs, Catz American Co, Macassar
60 bgs, Becker Mayer Seed Co, Macassar
60 bgs, Landes & Balin, Macassar
500 bgs, D Hauser, Grenada
500 bgs, Landes & Balin, Grenada
100 bgs, Wm E Martin, Grenada
28 bgs, Wm E Martin, Macassar
OCOTEA CYMBARUM OIL — 27 dms, Fritzsche Bros, Rio de Janeiro
OIL CAKE—3,100 bgs, Amaren Trading Co, Lattakia
OLIVE OIL—15 dms, International Food Trading Co, Genoa
25 dms, Irving Trust Co, Barcelona
55 dms, Uddo & Taormina Co, Palermo
OURICURY WAX—30 bgs, Wm H Muller, Amsterdam
26 bgs, Hans Tobeasan, Rio de Janeiro
504 bgs, W R Grace & Co, Salvador
252 bgs, A Door & Co, Salvador
PAPRIKA—200 bgs, M J Golombeck, Rotterdam
25 bgs, General Olive Oil Corp, Genoa
PARACRESOL—10 dms, H A Gogarty, Liverpool
PARACHLOROMETACRESOL—1 cs, H A Gogarty, Liverpool
1 dm, H A Gogarty, Liverpool
58 kgs, H A Gogarty, Liverpool
PEATMOSS — 800 bls, Bruco Peatmoss Corp, Bremen
1,300 bls, J E Bernard, Bremen
2,336 bls, Premier Peatmoss Corp, Bremen
PENICILLIN—3 cs, the Upjohn Co, Beirut
PEPPER, BLACK—400 bgs, First National Los Angeles, Cochin
80 bgs, Nederlandsche Handel, Cochin
210 bgs, Otto Gerdau, Singapore
308 bgs, Internatio Rotterdam, Oosthaven
175 bgs, Mutual Spice Co, Singapore
70 bgs, A C Israel, Singapore
80 bgs, Imperial Commodities Corp, Bombay
40 bgs, Marine Midland Trust Co, Cochin
80 bgs, Volkart Bros, Cochin
160 bgs, Bank of America, Cochin
440 bgs, Cochin
PERU BALSAM—1 dm, Wessel Duval & Co, Cristobal
PETITGRAIN OIL—6 dms, Lautier Fils Inc, Buenos Aires
1 dm, A Chiris & Co, Port Au Prince
PETROLEUM, CRUDE—66,598 bbls, Cities Service Oil Co, Amuay Bay
200,000 bls, Esso Standard Oil Co, Puerto La Cruz
179,249 bbls, Esso Standard Oil Co, Cartagena
169,599 bbls, California Oil Co, Sidon
188,985 bbls, California Oil Co, Puerto La Cruz
240,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz
200,330 bbls, Phillips Oil Co, Puerto La Cruz
PIMENTO BERRIES—100 bgs, Otto Gerdau, Kingston
80 bgs, George Luecders & Co, Kingston
80 bgs, John Holt & Co, Kingston
LEAF OIL—2 dms, E McKenzie Corp, Kingston
POLLACKLIVER OIL—500 dms, H A Gogarty, Yokohama
POPPY SEED—100 bgs, Becker Mayer Seed Co, Rotterdam
200 bgs, Joel Bieler, Rotterdam
POTASSIUM FERRICYANIDE — 40 bgs, Spring Chemicals, Inc, Rotterdam
MURIATE—1,500 tons, Synthetic Nitrogen Products, Bremen
PSYLLIUM SEED—502 bgs, S B Penick & Co, Bombay
153 bgs, T M Duche & Sons, Bombay
PYRIDIN—2 dms, James E Fox, Liverpool
QUEBRACHO EXTRACT — 1,134 bgs, Tanimex Corp, Buenos Aires
401 bgs, River Plate Import & Export Corp, Buenos Aires
8,400 bgs, International Products Corp, Buenos Aires
QUICKSILVER—250 flks, J H Shroder, Leghorn
300 btls, J H Schroder, Genoa
100 flks, Lo Curto & Funk, Tampico
100 flks, L H Keller & Co, Tampico
RAPE SEED—100 bgs, Levy & Levis Co, Rotterdam
RHATTANY ROOT—127 bgs, Meer Corp, Coquimbo
ROSEWOOD OIL—12 dms, Fritzsche Bros, Iquitos
RUTIN—16 bgs, Sydney
SANDALWOOD BILLETS—100 bgs, George Luecders & Co, Bombay
OIL—5 dms, Internatio Rotterdam, Rotterdam
41 cs, Lo Curto & Funk, Madras
SEEDLAC—400 bgs, Mantrose Corp, Calcutta
200 bgs, Suhr & Bundelman, Calcutta
400 bgs, C H Timm, Calcutta
400 bgs, Gillespie-Rogers-Pyatt, Calcutta
300 bgs, Ralli Bros, Calcutta
700 bgs, Dings & Schuster, Calcutta
100 bgs, Lind Mayer & Co, Calcutta
100 bgs, Wm Zinsser & Co, Calcutta
200 bgs, Colony Import & Export Corp, Calcutta
600 bgs, Calcutta
SESAME SEED—333 bgs, Louis Furth, Cristobal
SHARKLIVER OIL—150 dms, H A Gogarty, Yokohama
20 dms, National City Bank, Yokohama
3 dms, Arista Oil Products Co, Yokohama
20 dms, Collett-Week-Nibecker, Valparaiso
57 dms, Ocean Leather Corp, Pampatar
SHELLAC—50 bgs, C H Timm, Calcutta
200 bgs, Suhr & Bundelman, Calcutta
100 bgs, Flora Lac Co, Calcutta
200 bgs, Wm Zinsser & Co, Calcutta
400 bgs, Mac-Lac Co, Calcutta
300 bgs, Gillespie-Rogers-Pyatt, Calcutta
100 bgs, J H Ross, Calcutta
105 bgs, Calcutta
SODIUM ALGINATE—30 dms, Lincoln Electric Co, Glasgow
25 cs, T M Duche & Sons, Yokohama
PERBORATE TETRAHYDRATE — 500 dms, Chemical Mfg Co, Liverpool
SULPHATE—13,000 bgs, Lo Curto & Funk, Antwerp
SPERMACETI WAX—100 ctns, Glasgow
STARCH—3,200 bgs, Haberland Mfg Co, Rotterdam
SULPHAGUANIDIN—3 bbls, Hamburg
TALC—750 bgs, Charles Mathieu, Genoa
275 cs, Leghorn
TANKAGE—652 bgs, Tupman Thurlow, Auckland
224 bgs, Tupman Thurlow, Napier
67 bgs, Tupman Thurlow, Wellington
155 bgs, Gisborne
TAPIOCA FLOUR—6,000 bgs, Morningstar Nicol, Itajai
6,000 bgs, Stein, Hall & Co, Itajai
91 bgs, Geismar & Co, Itajai
TEAFLUFF—700 bgs, Citro Chemical Co, Colombo
TITANIUM ALUMINIUM — 50 dms, Niagara Smelting & Refining, Liverpool
TOLU BALSAM—6 dms, Norda Essential Oil & Chemical Co, Cristobal
1 dm, George Luecders & Co, Cristobal
TRAGANCANTH GUM—77 cs, V Simidian & Co, Beirut
40 cs, Ebramhidoff Djemshidoff, Khorramshahr
298 bgs, Khosrovshahi Co, Khorramshahr
73 cs, Khorramshahr
TRICHLOROETHYLENE—77 dms, Chemical Mfg Co, Liverpool
UREA—530 bgs, Chemical Mfg Co, Liverpool
SYNTHETIC—4,997 bgs, Chemical Mfg Co, Liverpool
VANILLA BEANS—6 cs, L A Champon & Co, Rotterdam
15 cs, Otto Gerdau, Marseille
25 cs, L A Champon & Co, Marseille
30 cs, Zink & Trieste, Papette
25 cs, Damman Smeltzer, Papeete
13 cs, Hunzikers Inc, Marseille
WHITING—800 bgs, Pluess Staufer, Antwerp
WOLFRAM ORE—300 bgs, Chase National Bank, Bilbao
278 bgs Manufacturers Trust Co, Bilbao
WOOL GREASE—103 dms, N I Malmstrom, Manchester
6 dms, A C Drury, Manchester
56 dms, Croda Inc, Liverpool
26 dms, Eelsingh & Lugtigheid, Rotterdam
ZINC CHLORIDE—20 dms, Riches Nelson, Antwerp

Los Angeles

AMMONIUM CHLORIDE—75 bbls, Antwerp
BONEMEAL, DEGELATINIZED—1,102 bgs, Atkins, Kroll & Co, Hamburg
CARAWAY SEED—40 bgs, W R Grace & Co, Rotterdam
CASTOR BEANS—1,500 bgs, Bahia
CLAY—4,286.56 lbs, Paper Makers Importing Co, Fowey
COPRA—500 tons, Procter & Gamble Co, Cagoyan
CAKE—6,000 bgs, Pacific Vegetable Oil Corp, Manila
2,915 bgs, Atkins Kroll & Co, Barranquilla
6,000 bgs, Van Waters & Rogers Inc, Cebu
6,760 bgs, Balfour, Guthrie & Co, Manila
568 bgs, Atkins Kroll & Co, Cartagena
12,440 bgs, Wilbur Ellis Co, Manila
DICALCIUM PHOSPHATE—881 bgs, The Farmers & Merchants National Bank of Los Angeles, Antwerp
EARTH COLOR—1,335 bgs, F D Davis Co, Rotterdam
FISHMEAL — 1,087 bgs, Bank of California National Association, Ilo
214 bgs, W R Grace & Co, Callao
LIVERMEAL — 493 bgs, International Packers, Wellington
MILK POWDER—2,900 ctns, Western Dairy Products Inc, Auckland
2,000 bgs, J H Hobson Co, Gothenburg
MILK POWDER—2,251 bgs, 153 crates, Delrey International Co, Rotterdam
MEATMEAL—3,200 bgs, Albumina Supply Co Inc, Rotterdam
MOLASSES—1,995 tons, Young Chee, Taiwan
PEATMOSS—1,200 bls, John Schumacher Co, Bremen
850 bls, Pacific Wax & Trading Co, Bremen
500 bls, Atkins Kroll & Co, Bremen
500 bls, Wilbur Ellis Co, Bremen
2,000 bls, E H Appleby & Co, Bremen
1,250 bls, Nurserymens Exchange, Bremen
500 bls, Van Waters & Rogers Inc, Bremen
500 bls, W H Wickersham & Co, Bremen
1,300 bls, H V Nootbaar & Co, Bremen
600 bls, Pieter K Kooiman, Bremen
1,200 bls, H M Newhall & Co, Rotterdam
PEPPER, BLACK—420 bgs, East India Trading Co, Singapore
70 bgs, Carl M Loeb Rhoades & Co, Singapore
14 bgs, B C Ireland Inc, Singapore
21 bgs, Singapore
RED—250 bgs, Griffith Laboratories, Rotterdam
PETROLEUM, CRUDE—1,115,113 bbls, Standard Oil of California, Lebanon
POTASSIUM FERRICYANIDE—100 bgs, Antwerp
NITRATE—200 bgs, National Shawmut Bank of Boston, Hamburg
QUEBRACHO EXTRACT—834 bgs, First National Bank of Chicago, Rotterdam
200 bgs, Harold Schulter, Gothenburg
RAPE SEED—660 bgs, Catz American Seed Corp, Rotterdam
SEEDLAC—2,032 bgs, 280 bgs, East Asiatic Co, Bangkok
SESAME SEED—285 bgs, W R Grace & Co, Corinto
75 bgs, Hismoco American Co, Corinto
38 bgs, B C Ireland & Co, Corinto
150 bgs, R J Spitz Inc, Corinto
SODIUM CYANIDE—400 bgs, Chas Page & Co, Rotterdam
NITRATE—1,120,157 lbs, Guaranty Trust Co, Tocopilla
TARTARIC ACID—100 dms, Gallard Schlesinger, Rotterdam
UREA—2,204 bgs, Antwerp

Philadelphia

ANTIMONY—16 dms, Rotterdam
BONEMEAL—721 tons, Credit Suisse, Rosario
CASEIN—500 bgs, National City Bank, Montevideo
2,000 bgs, Buenos Aires
CASTOR OIL—128 tons, Garnac Grain Co, Calcutta
289 tons, Phila National Bank, Calcutta
GYPSUM—4,900 tons, U S Gypsum Co, Hantsport
MANGANESE ORE—9,025 tons, Lavino Shipping Co, Durban
MILK POWDER—523 bgs, J Hobson Co, Hamburg
NICKEL OXIDE—863 tons, Nicare
PEATMOSS—600 bls, Harris Trust Co, Bremen
2,700 bls, E Dunwoody, Bremen
PETROLEUM, CRUDE—320,339 bbls, Texas Co, Sidon
113,682 bbls, Texas Co, Pamatacual
126,283 bbls, Atlantic Refining Co, Puerto La Cruz
123,371 bbls, Atlantic Refining Co, Las Piedras
127,417 bbls, Socony Vacuum Oil Co, Banias
313,097 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
118,784 bbls, Socony Vacuum Oil Co, Covenas
413,341 bbls, Gulf Oil Corp, Puerto La Cruz
402,206 bbls, Gulf Oil Corp, Mena Al Ahmadi
108,471 bbls, Esso Standard Oil Co, Aruba
POTATO STARCH—1,450 bgs, Rotterdam
VANILLA BEANS—42 cs, Camas Co, Vera Cruz
ZIRCONIUM ORE—303 tons, F Samuel & Co, Santos

San Francisco

CASSIA—100 bls, H M Newhall, Djakarta
CHILLIES—30 bgs, Wah Young Co, Kobe
CLAY, CHINA—309 tons, Paper Makers Importing Co, Fowey
COPRA—500 tons, Pacific Vegetable Oil Corp, Jose Panganiban
300 tons, Cargill Inc, Manila
200 tons, Atkins Kroll & Co, Zamboanga
1,000 tons, El Dorado Oil Works, Manila
500 tons, Cargill Inc, Iloilo
500 tons, Cargill Inc, Sisin
500 tons, Cargill Inc, Sialn
500 tons, Cargill Inc, Cebu
CAKE—269 tons, Balfour Guthrie, Cebu
100 tons, Balfour Guthrie, Manila
MEAL—90 tons, Balfour Guthrie, Manila
COTTON LINTERS—275 bls, Lastero Phillips Co, La Union
FISHMEAL—80 bgs, Bank of South America, Talcahuano
1,087 bgs, Wessel Duval & Co, Chimbote
1,277 bgs, Talcahuano
923 bgs, Valparaiso
NUTMEGS—60 bgs, Internatio Rotterdam, Djakarta
65 bgs, Catz American Co, Djakarta
OLIVE OIL—50 dms, Alfredo Rossi & Co, Genoa
PEPPER, BLACK—339 bgs, Internatio Rotterdam, Djakarta
70 bgs, D Hecht & Co, Singapore
WHITE—30 bgs, Internatio Rotterdam, Singapore
PETROLEUM, CRUDE—95,953 bbls, Standard Oil Co, Sidon
SAGO FLOUR—113 bgs, Singapore

Glass Containers Shipments: Aug.

Total shipments of narrow neck glass containers in gross during August were 6,941,860, as compared to 6,259,721 in July, according to the Bureau of Census. In this category the amount used for medicinal and health supplies was 1,186,689 in August, compared with 964,765 in July; chemicals, 785,004 in August, compared with 674,202 in July, and toiletries, 622,954 in August, compared with 506,017 in July.

Total shipments of wide-mouth glass containers in gross during August were 4,184,196, compared with 3,475,251 in July. In this category the amount used for medicinal and heatlh supplies was 352,859 in August, compared with 241,768 in July; chemicals, 143,035 in August, compared with 114,176 in July, and toiletries, 150,776 in August, compared with 121,538 in July.

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Copper, Aluminum Export Quotas Set for Jan.-Mar.

The first quarter 1953 export quotas for copper and aluminum covered by the Controlled Materials Plan were announced November 3 by the Office of International Trade.

For CMP copper and copper-base alloy products, the quota totals 12,136,000 pounds, compared with an initial 10,320,000 pounds for the fourth quarter, which has since been raised to 12,650,000 pounds.

For aluminum, the first quarter quota was originally set at 6,000,000, but has since been raised to 8,000,000 pounds. The initial quota for the fourth was also 6,000,000 pounds and has since been raised to 8,000,000 pounds.

In licensing exports to foreign countries against these quotas, OIT will follow the same criteria as in the past several quarters. License applications will continue to be approved where the applicants demonstrate that the material is essential to direct military production, to the production of strategic materials, to direct defense-supporting industry, or to the maintenance and development of the basic economy, civilian activities, and public services of the United States or friendly countries.

Of the quotas announced, foreign petroleum operations were allotted 120,000 pounds of aluminum and 2,354,000 pounds of copper.

Pitman-Moore Ups Bozeman To Zionsville Labs Head

Dr. Samuel R. Bozeman has been named director of the Zionsville biologic laboratories of the Pitman-Moore Company, Indianapolis, Ind. He succeeds Dr. W. S. Gochonour, who had been director of the laboratories for fourteen years and was recently promoted to vice-president of the company.

Dr. Bozeman joined Pitman-Moore this year as assistant director of the biologic laboratories in charge of quality control. Previously he was a member of the staff of the bureau of laboratories of the Michigan Department of Health and in 1946 became its assistant director of the biologic products division. In 1948, Dr. Bozeman was named to the staff of Gen. Douglas MacArthur as a civilian, serving in the general headquarters of the Supreme Commander, Allied Powers, Tokyo, as chief of the laboratory branch of public health and welfare.

Schering Names Ramers

Schering Corporation, Bloomfield, N. J., has announced the appointment of Victor Ramers as manager of its affiliated company in Santiago, Chile. Before joining Schering, Mr. Ramers had been associated with other pharmaceutical houses and worked in several countries abroad.

Trade Briefs

Lawrence Miller, who recently resigned from the Bodeker Drug Company, Richmond, Va., has returned to the W. H. King Drug Company, Raleigh, N. C.

Arthur L. Boschen, comptroller of Vick Chemical Company, New York, has been elected vice-president of the Controllers Institute of America.

United Laboratories, Ltd., Pasadena, Calif., and the University of Southern California school of medicine have compiled a two-year comprehensive study on the treatment of rheumatic fever with ACTH.

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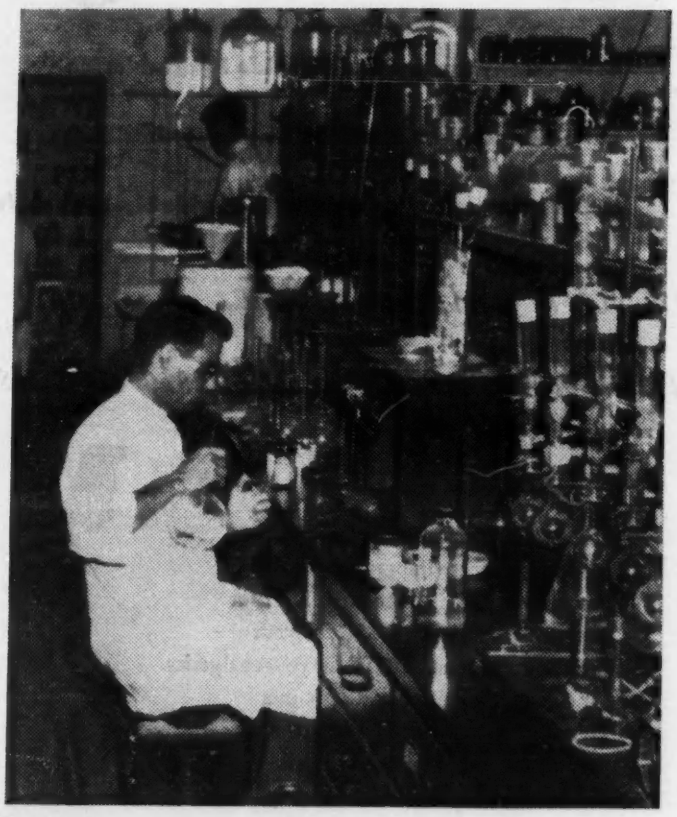

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ICC Intrastate Explosives Transport Rules Vacated

Orders of the Interstate Commerce Commission, which applied its rules and regulations on transportation of explosives and other dangerous articles to such materials moving by common, contract or private motor carriers in intrastate commerce, were vacated October 28 by the commission. The commission authority over intrastate commerce of motor carriers existed only during the war and six months thereafter. By proclamation issued April 28, 1952, President Truman officially ended World War II and consequently the commission's rules were no longer binding on this traffic after October 28.

The vacating order did not disturb other orders of the commission that applied its explosives and dangerous articles rules to the interstate traffic of private motor carriers. The validity of these orders has been questioned by some chemical shippers, but the commission's notice stated that these regulations shall be observed "until further order of the commission."

Bersworth Chemical Cuts 'Versene' Price 10 Percent

Bersworth Chemical Company, Framingham, Mass., has reduced the price of "Versene" by approximately 10 percent. The reduction carries over to "Versene Fe3" and covers these two products in liquid, powder and bead form. "Versenes" are described as chelating agents used in textiles, rubber, foods, wines, beverages, tanning, canning, soap, plating and paper. They are also used in agriculture to supply metal ion deficiencies and to condition water used in 2-4-D sprays, according to Bersworth. Of late, the company said, the medical and pharmaceutical fields have shown increased interest in them cause they control the metallic ions that cause contamination in all kinds of solutions.

Sterling-Winthrop Inst. Adds Two

Appointment of Dr. Gloria Silvern as research analyst, and Mrs. Susan P. Coffey as research assistant, on the staff of the Sterling-Winthrop Research Institute, Rensselaer, N. Y., has been announced by Dr. M. L. Tainter, director. Dr. Silvern will be working with various members of the Institute staff on the mathematical and statistical phases of research projects. Mrs. Coffey will serve in the analytical chemistry division.

Kidde Names Frankfort Chief Project Engineer

The appointment of J. H. Frankfort as chief project engineer for Walter Kidde Nuclear Laboratories, New York, has been announced. Before joining Kidde, Mr. Frankfort was associated with the H. K. Ferguson Company, engineers and builders. Mr. Frankfort recently served as chief project engineer on the National Lead Company's $14,000,000 titanium plant at Henderson, Nev. He previously had been employed by E. I. duPont de Nemours & Co. for a period of seven years, which included atomic assignments at both Oak Ridge, Tenn., and Hanford, Wash.

DPA Output Post to Huff

Interim appointment of Warren Huff as acting deputy administrator for production and acting chairman of the aircraft production board and production executive committee was announced November 3 by Ralph S. Trigg, acting head of the Defense Production Administration. Mr. Huff succeeds William L. Campbell, who is rejoining the Food Machinery & Chemical Corporation, San Jose, Calif., from which he has been on leave since last December.

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Nickel Scrap Pricing Regulation Is Revised

The Office of Price Stabilization last week issued a revision of its pricing regulation covering pure nickel scrap, Monel metal scrap, stainless steel scrap, and other scrap materials containing nickel, chrome, etc. The action was covered by revision 1 of Ceiling Price Regulation 29, effective November 8.

The original CPR 29, issued May 3, 1951, established dollars-and-cents ceilings for these scrap materials at a price level less than that for primary nickel and at a general level lower than ceilings established under the General Ceiling Price Regulation (GCPR). The revised CPR 29 does not materially change the general level of ceilings established under the original CPR 29. Primarily, CPR 29 has been revised to incorporate changes and clarifications which are consistent with customary industry pricing practices and thus enable the industry to conform more readily with the provisions of the regulation.

Schering Ad Posts to Sands, Najarian

Appointment of Frederic C. Sands as advertising manager of Schering Corporation, Bloomfield, N. J., has been announced by Dr. John N. McDonnell, vice-president. Ralph C. Najarian has been appointed assistant advertising manager. Carl C. Larsen, who has been advertising production manager since 1945, continues in that post. The advertising and advertising production departments are parts of Schering's domestic sales division, which is headed by Herman W. Leitzow, domestic sales manager.

New Bedford Textile Inst. Now Headed Up by Foster

Prof. John E. Foster last week assumed the presidency of the New Bedford Textile Institute. He is the successor to George Walker whose retirement, after sixteen years as the administrative head of the institute, became effective November 1. The new president was elected to the office at the last monthly meeting of the board of trustees of the institute.

Dr. Snyder Moves Office

Dr. J. L. K. Snyder has announced the removal of his office from 60 East 42nd street to 220 East 42nd street, New York 17. The telephone number is MUrray Hill 2-1156.

Jones & Laughlin Container Sales Now Headed by Lyons

Jones & Laughlin Steel Corporation, Pittsburgh, Pa., has appointed K. M. Lyons director of sales for its container division. Mr. Lyons succeeds H. W. Lees, who retired from the post on November 1, and will continue with the firm in a consulting capacity.

Mr. Lyons was formerly manager of drum sales for Jones & Laughlin's container division. He has been succeeded in his previous post by G. Wesley Gates, who was formerly manager of container sales for Rheem Manufacturing Company. Mr. Lyons was in the oil industry in Pennsylvania for twenty-five years before coming to J&L's container division in 1940. He will make his headquarters at the division's sales offices in New York.

Metal Can Shipments: Aug.

Total shipments of metal cans during August was 10 percent above July, establishing a high for 1952, but 4 percent below August of 1951, according to the Bureau of Census. These figures are based on metal can shipments expressed in terms of weight of steel consumed in the manufacture of the cans shipped. In August metal can shipments amounted to 465,820 short tons, compared with July's revised figure of 423,894 short tons, and 483,188 short tons in August, 1951.

Tinplate Industry Urges Revocation of Use Curbs

Revocation of controls over the distribution of secondary tin mill products was recommended November 6 by the tinplate advisory committee at a meeting with the National Production Authority.

The industry is facing a burdensome accumulation and mills are finding it difficult ot dispose of secondary products under the Controlled Materials Plan, members said. NPA promised to consider the recommendation along with other methods to aid the industry in disposing of its products.

In response to inquires from the committee on the tin situation, NPA officials said that tin is coming into the United States at a very good rate but a lower production can be expected from the Far East. It will be necessary to wait several months to determine whether tin imports can be expected in quantity from Bolivia, they said. Officials added that the smelter at Texas City, Tex., has enough ore or concentrate on hand and on the beach in Chile to keep it in operation for a year.

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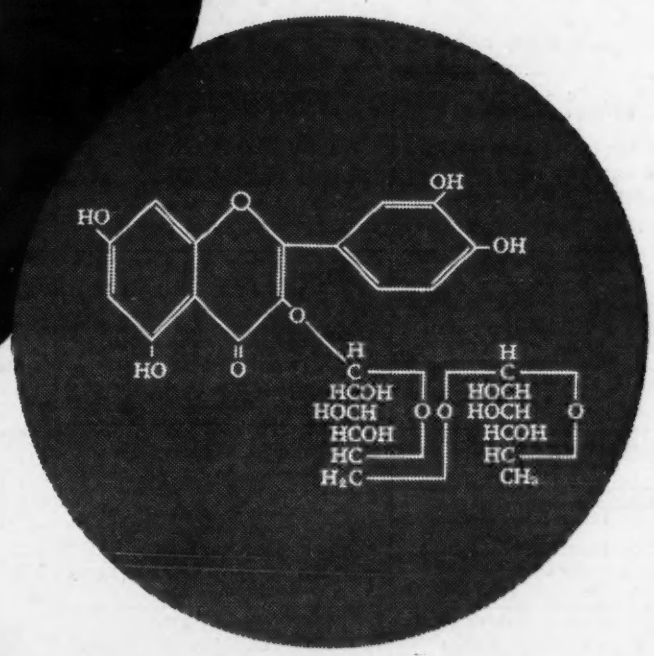

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Botanical Drugs, Spices, Gums

Price activity, mainly in flavoring botanicals last week, weighed heavily on advances and the market index rose 0.07 point to 103.31. Features were very sharp rises in quotations on turmeric root and red peppers. Cassias from Batavia and Saigon rose as stocks dwindled and China cassias were entirely nominal. Some unsettlement and even weakness was noted in decorticated and green cardamom as prices dropped. The stocks of many condimental botanicals were so conservative in size as to make quotations sensitive and subject to rather nervous advances when demands increased in number and size.

The botanical drug group poses a difficult problem for buyers and sellers alike this year. Nothing but very poor demand can prevent the development of higher prices along a broad front, especially as concerns domestic drugs for domestic consumption and export trade alike. If there had not been a rather large carryover from the bumper crop of 1951, the supply situation would be even more serious than it is. During the collection season this year, very little botanical merchandise was collected, mainly because prices offered workers were very low early in the season, which reduced the number of workers far below normal. To complicate the matter still more, dry weather and the worst drought in years burned the leaf, herb, flower, and berry crops long before maturity and rendered the ground so hard that digging roots was often impossible.

An OPD representative made a personal survey of the domestic primary market during October and the results of that study appear on page 4, this issue.

Balsams

Copaiba—Though still subject to considerable competition on the spot where demand has not been too active of late, quotations seemed to be somewhat steadier if not actually firmer on the basis of $1 to $1.75 per pound depending on supplier.

Fir—Oregon balsam continued to show the strength that recently advanced spot quotations to the basis of $2.85 to $3.50 per gallon. The source offered in small lots only. Canadian balsam remained steady at $32.50 to $33.50 per gallon, being in line with new crop prices.

Peru—Not all sellers took the avenue of competition when approaching sales; such directions continued to name prices which others shaded substantially and made the market $1.25 to $2.15 per pound, depending on seller, quantity and, in some instances, quality.

Tolu—Quotations were a trifle steadier last week; the market remained at $3.85 to $4.85 per pound but the tendency to shade prices that produced a further price decline recently could still be found in some quarters.

Barks

Bayberry—An effort to increase reserves was made in October when buying prices were upped considerably.

Black Haw—The collection of tree bark was less than some dealers desired this year and the item went on several lists naming especially wanted drugs. Root bark appears to be in fair reserve supply but local prices reflect by firmness the cost of new crop material this year.

Fringetree—Fairly high buying prices prevailed for root bark throughout the production season but deliveries into collection centers was not up to the desired mark and several suppliers emphasized their needs to workers, without a deal of success, according to report.

Sassafras—Practically every primary market dealer put this article on the specially wanted list. This applied specially to rossed and unrossed bark of bright description. On the whole, buying prices were lower than a year ago by about 5c. per pound. A fair sized production resulted from special efforts and a normal Spring demand should be supplied without a deal of difficulty.

Imports Detained by FDA

Week Ended Oct. 31

New York

Auroeomycin, 1 case, not certified.
Elderberries, 50 cases: filthy.
Juniper berries, 84 bags: insect infested.
Kola nuts, 2 lots, 401 bags: insect infested.
Mace, 7 lots, 52 cases: insect infested.
Nutmegs, 121 bags: insect infested and moldy.
Pepper, black, 4 lots, 315 bags: filthy and insect infested.
White, 2 lots, 205 bags: insect infested.
Stramonium leaves, 104 bales: filthy.

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

Ginger root, African, ¾c. per lb.

Other Articles

Cassia, Batavia, longstick, 1c. per lb.
shortstick, ¼c. per lb.
Saigon, broken, 1½c. per lb.
medium, 2c. per lb.
Celery seed, Indian, ½c. per lb.
Cinnamon, Ceylon No. 2, 1c. per lb.
Clove, Madgascar, 7c. per lb.
Zanzibar, 7c. per lb.
Grains of paradise, 1c. per lb.
Laurel leaves, Portuguese, ½c. per lb.
Turkish, 1c. per lb.
Oregano, Italian, 2c. per lb.
Paprika, Czech, 5½c. per lb.
Moroccan, 3c. per lb.
Pepper, red, Carolina longs, 4c. per lb.
Hontakas, Japanese, 7c. per lb.
Louisiana longs, 3c. per lb.
Mississippi sports, 3c. per lb.
Nigerian, 5c. per lb.
Turmeric root, Alleppey, 11c. per lb.
Madras, 4c. per lb.

Prices Reduced

Drugs

None

Other Articles

Cardamom, decorticated, Guatemalan, 5c. per lb.
green Alleppey, 20c. per lb.
Ceylon, 5c. per lb.
Mustard seed, Dutch, ½c. per lb.
Nutmegs, East Indian, 1c. per lb.
shrivels, 1c. per lb.
Pepper, black†, Malabar, spot, 7c. per lb.
Poppy seed, Turkish, ½c. per lb.

Comparative Price Indexes

(100=1940 average)

Last week	Prev. week	Last month	Nov. 9, 1951
103.31	*103.26	100.25	116.58

*Revised.
† Obtained too late for index calculation.

(*For Current Prices see Page 9*)

Beans

Vanilla—A strong market prevailed in all directions last week and although prices were not advanced further, sellers tended toward a higher level of values. Stocks now unsold on this market were declared to be conservative in size and cannot be replaced abroad save at the prices asked by foreign shippers. Most cabled bids met rejection at the origins and secondary markets which seemed to realize fully the strength of their current position. This was especially so in view of the fact that the new crop of Bourbon beans is bound to be quite small and crops during the next three to five years cannot increase very much.

Herbs and Leaves

Catnip—Stocks are short. Collection was poor in practically all collection areas and cannot be increased now. Those with a fair carryover from the 1951 crop have a position of special advantage. Adverse weather conditions reduced the amount of material available for collection and the rise in buying prices had little effect on deliveries to primary market warehouses.

Cleavers—This article of small consumption was carried over from 1951 in such small quantities as to cause some dealers to place the article on specially wanted lists. All reports indicated a short supply for 1952.

Deer Tongue—Need to increase primary market stocks arose early in the collection season when buying prices were raised moderately and when the item was listed as specially wanted. The net results of collection were poor because of adverse weather conditions at the critical time for gathering.

Huckleberry—Leaves will not be available in normal quantities in several directions in the primary market. However, unless demand be exceptional consumer needs should be met.

Liverwort—Practically all primary market suppliers pressed for a rise in collection this year but met with indifferent success. At present, the article is listed in definitely short supply. Buying prices were 12c. per pound above those of last year in some directions.

Passion Flower—The huge production of 1951 was not duplicated during the past Summer. In the case of one collector at the origin, production dropped approximately 38,000 pounds from the 1951 total. Furthermore, very little is being carried over. If export business rise sharply—or even return to normal volume—much higher prices appeared to be inevitable.

Princess Pine—Several collectors list this article as in definitely short supply, the result of a poor collection this year

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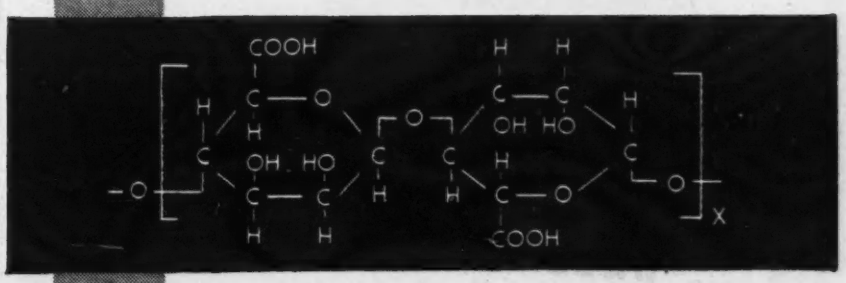

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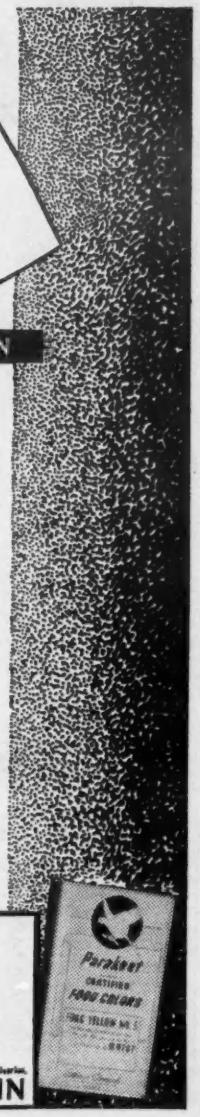

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and an inconsequential carryover in some directions.

Roots

Angelica—Domestic root was reported in subnormal supply by some primary market dealers. This may have resulted from the fact that buying prices last Summer were, in some instances, 20c. per pound less than a year ago.

Blackberry—The new crop was small despite efforts made to increase collection this year. Buying prices varied sharply between the several collectors, the difference being as much as 9c. per pound. Possibly the stock offered from New England last Summer may find buyers if demand be normal.

Cohosh—Fortunately, it is blue cohosh that is in subnormal supply this year; most primary market dealers so list it but small consumption may permit needs to be met. As to black cohosh, the stock is believed to be sufficient despite the fact that collectors offered about 4c. per pound less than they did a year ago.

Ginseng—The export interest in this root is amazing. Wild root has been finding a large market for shipment to China via San Francisco and Hong Kong, according to primary market dealers. Buying prices advanced as much as $2 per pound during the collection season and every pound of good quality root was snapped up eagerly. Sales into export channels are being made between $16.50 and $17.50 per pound.

Goldenseal—Interest in new crop collection was apathetic last Summer. So much so that buying prices in some instances were between 75c. and $1 per pound under those prevailing a year ago.

Helonias—After reducing buying prices by some 40c. per pound in some instances, collection naturally lagged. Then came highly difficult collection conditions, the result of adverse weather. Should demand of extraordoniary during the next consuming year, difficulty in meeting it may arise as the size of the carryover is reduced.

Seeds

Cardamom—Offerings of Guatemalan decorticated seed were slightly lower at $2.60 per pound. Alleppey green cardamom in an afloat position was down to $2.05 to $2.10 but Ceylon seed, actually spot, was lower at $2.20. Bleached cardamom held unchanged.

Celery—Indian seed was firmer at an advance to 26½c. to 27c. per pound. French seed was steady to firm at 38c. to 38½c.

Coriander—Under light and usually jobbing demand, all varieties held steady in price throughout the past week.

Cumin—Turkish seed was noted at 15½c. to 15¾c. per pound. Argentine held at 8½c. to 9c. and Czech was 7c. to 7½c.

Mustard—The price on Dutch yellow was shaded to 10½c. to 11c. per pound. German yellow was 10½c. nominal. Domestic growers in Montana forecast a smaller crop in the Fall of 1953, mainly because the government will permit farmers to increase their wheat acreage as much as they can or wish. The support

—*Continued on page 74*

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Essential Oils, Other Aromatics

Reports on business activity during the past week in the essential oils and aromatic chemicals market revealed mixed opinions. Some manufacturers reported receiving good inquiry for most items, while others said that demand had remained for the most part spotty. All agreed, however, that the current trend of the market seemed to be toward sales that were smaller in volume and that were not made for the purpose of building of inventories. The market has felt the effect of seasonal buying in the past weeks and it was this factor that made October a generally satisfactory month. The price index for the week rose to 167.08, an increase of 0.31 point.

Price changes were numerous and were chiefly reductions, in spite of the upward shift of the index. Price increases were limited to two oils. Dillweed oil was increased as a result of higher replacement costs. This oil was said to be in somewhat short supply as a result of recently stimulated interest. An increase in the price of petale Neroli oil was the largest price change of the week. Replacement costs have increased considerably and were showing their effects with the current increase in price.

A lower price was effected for bois de rose oil as the country exporting the oil failed to maintain the price floor that has been in effect. Several derivatives of this oil followed the downward tendency. Linalool exhibited a substantial price reduction and linalyl acetate was reduced by a smaller amount. Lime oil was found in a weaker position, the season of largest demand being past, and prices for West Indian oil, both distilled and expressed, were reduced.

Orange oil continued the downward trend it has followed in recent weeks with further reductions. California and Florida oils were both affected in the week just past. Price reductions were also noted for caraway, coriander, synthetic mustard and Dalmatian sage oils.

Market Trends

Prices Advanced

Oil, dillweed, 35c. per lb.
Neroli, petale, $10 per lb.

Prices Reduced

Linalool, ex bois de rose, 60c. per lb.
Linalyl acetate, ex bois de rose, 90-92%, 20c. per lb.
Oil, bois de rose, 5c. per lb.
Caraway, 50c. per lb.
Coriander, 50c. per lb.
Lime, distilled, West Indian, 15c. per lb.
Expressed, West Indian, 15c. per lb.
Mustard, synthetic, 10c. per lb.
Orange, expressed, California, 10c. per lb.
Florida, 10c. per lb.
Sage, Dalmatian, 10c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
167.08	166.77	171.04	210.32

(For Current Prices see Page 9)

Essential Oils

Bois de Rose—A reduction of 5c. per pound on the previous low offer brought this oil to a low price of $3.85 per pound. Selling at this price, the oil was available at less than the minimum price that the country of origin has in the past attempted to maintain. For an oil that is used in as large quantities in this country as is bois de rose oil, a descending price level was a decided advantage to the consumer. It was thought that the current weak tone for the oil would continue unchanged for the immediate future.

Cananga—Although some dealers were not quoting prices for this oil, others reported maintaining a good inventory and stated that the current inquiry could be met from available stocks. Native oil was priced from $11 per pound. Rectified oil, although it was generally quoted higher than native, was available from at least one source at $11 per pound.

Caraway—A lower price was recorded for this oil when it was offered by one supplier at $3.25 per pound. At this price, the oil was down 50c. from the previous low quotation. The reduction was said, however, to indicate no general downward trend. The oil has remained stabile in its price range for the recent past and no developments have appeared on the market that might effect an overall change in the price structure. Demand was said to be unaltered from its usual level and supplies were amply to satisfy these requirements without difficulty.

Cedarleaf—A firmer outlook was observed for this oil as replacement showed an increase. Of domestic origin, the oil has been affected by higher production costs. The market price of the oil reflected the increases in the past week, a trend that was expected to become more pronounced in the coming weeks.

Citronella—The greatly weakened tone which this oil has been showing recently continued unimproved in the past week, as prices remained at their current depressed levels, Ceylon oil was quoted as available from 55c. to 90c. per pound and Java type from 45c. to 85c. per pound. Spot prices, however, were in some instances reported lower than these quotations. The chief cause of the weakened situation in this market was said to be the large supplies of the oil that were available. An additional cause might have been the slight loss of interest in the oil noted on the part of buyers recently. Some mention was made during the week of the possibility of an upswing in prices.

Clove—The current high price of buds has forced the price of the oil up so that a price of $7.50 per pound was the lowest one that could be found on the market. With replacement costs continuing just as high as in past months, there seemed little possibility of an early weakening.

Coriander—A reduction of 50c. in the previous low quotation for this oil was made during the week, in spite of the fact that observers in the trade generally felt that the oil was moving into a rather scarce position. Some offers were increased for this reason. The contradictory price shifts indicated that the oil should be watched in the forthcoming weeks for further price changes.

Dillweed—An increase of 35c. in the minimum quotation for this oil brought the price up to $4 per pound. Higher replacement costs were reported as the factor making the increase necessary. Inquiry in recent weeks has been noticeably better, showing a contrast to the general lack of interest in the oil during the summer months. This increased activity, it was said, has resulted in a certain amount of tightness in supplies.

Eucalyptus—Prices were maintained without noticeable change, the 70-75 per cent oil quoted from 85c. per pound and the 80-85 percent oil from $1 per pound. A good inquiry was reported from the usual consuming industries and was satisfactorily met by dealers from current inventories. Some indications were received that replacement costs from one producing country might bring an overall price weakening, but as yet this was not felt in the market.

Garlic—Increased difficulty was met by consumers in obtaining requirements of this oil, as supplies remained at much lower levels than normal. Prices ranged from $7.25 to $8.50 per ounce, although quotations were said in some cases to be merely nominal. An immediate easing of the situation seemed unlikely with unsettled conditions abroad making the exporting of the oil in sizable quantities difficult.

Lavandin—Available currently from $3 to $3.25 per pound, the oil remained in a position of comfortable supply. Although the recent harvest in France was said to have been affected by drought, the yield was nevertheless large enough to put sufficient supplies on the market. A good inquiry was reported for the oil.

Lavender—Adverse growing conditions in France have had a noticeable effect on the supplies of the oil available for export. Total production has been estimated as less than last year's, a situation that could greatly affect the position of the oil. In the past week the prices of French oil remained unchanged, 30-32 percent oil ranging from $3.10 per pound, 38-40 percent, from $4.85, and 40-42 percent, from $6. A strong tone was in evidence for the oil although supplies in this country were said generally to be good.

Lemon—Prices held steady in the past week for California oil, during which period it was available from $5.85 to $6.30 per pound, depending upon brand. Supplies remained somewhat tight for this oil, which has been in very short supply for quite some time. However, there were indications that it was moving into a position of greater availability. Italian oil was quoted at prices ranging from $5.85 per pound.

Lemongrass—Price quotations of 75c. to $1.40 per pound, received during the week, indicated that the weakness in this oil was continuing without improvement. The large quantities that were available on the market assured the consumer of

For Late Market Developments, See Page 4

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easy filling of his orders and indicated, as well, that any price strengthening would be very gradual when once it began.

Lime—West Indian expressed oil was offered from $7.10 per pound, a price 15c. lower than the earlier low offer. A decline was also registered for West Indian distilled, when it declined 15c. to a price of $7.25 per pound. Distilled Mexican oil remained available at a minimum quotation of $6.50 per pound. The lowered prices appeared as the heaviest season of demand ended. Reduced inquiry would, it was hoped by manufacturers of the oil, be stimulated by the lowered price structure.

Mustard—The synthetic oil was quoted during the week by one large producer at $1.60 per pound, which was lower by 10c. than their previous price. Demand for the oil in this country was said to be good, with orders being received at about the pre-Korean average. The export market, however, was said to have shown a tendency to fall off somewhat in recent months.

Neroli—A sizable increase was noted in the price of petale oil when a price of $50 per pound was offered as the lowest on the market. This was $10 per pound more than the previous low price. Rising manufacturing costs have made replacement costs higher, it was reported, bringing about the present increase in price. The oil was available in sufficient quantities to satisfy most current demands from consumers.

Orange—A reduction in price during the last week brought expressed oil down to the lowest price level yet reached in the current downward price movement. California was priced from 90c. to $1.75 per pound, depending on maker. This low price was 10c. per pound less than the previous quotation. Florida oil was also available at 90c. per pound, other quotations ranging to $1.55 per pound, according to brand. This low price, also, showed a decline of 10c. from the previously quoted one. Large supplies of the oil have caused the extensive price reductions to continue and a depressed demand has intensified the condition of oversupply. The future position of the oil, it was said, would probably not show any extensive or immediate improvement. Italian oil was priced from $4 per pound and was generally easily available.

Peppermint—There were no new price declines for this oil in the past week, during which time the downward price trend of the recent past was halted. The weak tone of the oil was unchanged, however, and the future remained clouded. Supplies remained more than sufficient for the current demand, which recently has been considerably lower than usual.

Snakeroot—The minimum quotation for this oil of $31 per pound was maintained in the past week, although the indications in the market were that the price would

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be increasing. With the new crop gathered, the increased production costs were forcing the makers to raise their quotations. The special conditions involved in the production of this oil worked toward effecting a balance between supply and demand.

Spearmint—After making several price declines in the past ninety days, this oil has moved into a comparatively stronger position. Prices during the past week ranged from $7.75 per pound and gave indications of remaining in a stabile position for the immediate future. A wider use of the oil was felt to be an encouraging sign that no great further weakening would appear.

Vetiver—Bourbon oil was available from $22 per pound and Haitian from $17.50 per pound. Both types of this oil have shown little tendency to fluctuate in price in recent months. Supplies were said in the past week to be adequate for current market demand so that those interested in the oil found it available in the quantities needed.

Wormseed—The oil remained available from $8 per pound, showing no price changes during the week. A softer tone was noted, however, causing some informed sources to hold that the price might show a decrease in the near future. The current prices have been considered high by most in the trade and might be forced down, now that the new crop had been gathered.

Aromatic Chemicals

Anethol—The material was available from 75c. to 80c. per pound for the technical grade and from $1.20 to $1.60 per pound for material meeting NF specifications. A steady market demand for this material has been noted, with some recent increase in interest attributed to the continuing scarcity and high price of anise oil. Comfortable supplies were reported currently available, indicating that the consumer should have no difficulty in obtaining the amounts needed.

Citral—The material remained at the recently lowered price of $3.20 per pound. As a basic constituent of lemongrass oil, citral was easily obtainable on the market. The supply situation would likely remain favorable to the consumer for some time, due to the very large supplies of lemongrass oil produced of late. Recent price reductions in derivatives of lemongrass oil have affected citral to the extent that it has been priced lower than at any time during the year.

Geraniol—The ample supply of citronella oil on the market and the weakened prices noted for it in recent weeks has had their effect on this derivative. The material is available in very good supply, so that no problem exists in obtaining sufficient quantities. Although the price of citronella oil has gradually declined during the recent past, those for geraniol have remained somewhat more steady. No price changes were noted in the past week.

Linalool—The oil derived from bois re rose oil followed the recent trend toward weakening prices when it was made available during the week at $5.60 to $6.55 per pound. The decline indicated that to a certain extent derivatives of bois de rose oil could be expected to show a comparable downward shift in prices. The oil was said to be available in sizable amounts so that the current inquiry could be easily satisfied.

Linalyl Acetate—A decline in the price of the 96-98 percent oil from bois de rose oil brought the minimum offer to $6.40 per pound, lower by 20c. than the previous low price. The tendency for all derivatives of bois de rose oil to exhibit a weakening in price was demonstrated again in this instance. All current inquiry could be met without difficulty as present stocks were reported to be at levels higher than were customarily maintained in past months.

Rhodinol — An adequate supply situation was reported for this geranium derivative. The requirements of the market in recent weeks have not been noticeably greater and have been filled without difficulty from manufacturers current rate of production. Previous prices remained in effect, the material being priced from $40 to $56 per pound.

Trade Briefs

Everett L. Hollis has resigned as general counsel of the Atomic Energy Commission.

Francois de Laire, general manager of Fabriques de Laire, is now in this country on a month's business visit.

Dr. Victor Sutter has been appointed assistant director general of the department of advisory services of the World Health Organization.

MCA Publishes Appendix To Air Pollution Manual

Publication of the first of a series of appendices to the bibliography on air pollution contained in the Manufacturing Chemists' Association's "Air Pollution Abatement Manual" has been announced by the association.

The references contained in appendix I (twenty pages) have been compiled during the first half of 1952. Additional appendices will be published every six months in an effort to keep the reference material up to date. The appendices may be ordered from MCA, 246 Woodward Building, Washington 5, D. C., at 35 cents each, or by subscription for a three-year period at $1.50.

Adhesive Data Offered by Gen'l Tire

The chemical division of the General Tire & Rubber Company, Akron, Ohio, has published a new three-color, eight-page brochure on "Kalabond," its rubber-to-metal adhesive which bonds natural, GRS, neoprene, and nitrile rubber compounds to iron, steel, stainless steel, aluminum, brass, magnesium, monel, nickel and zinc.

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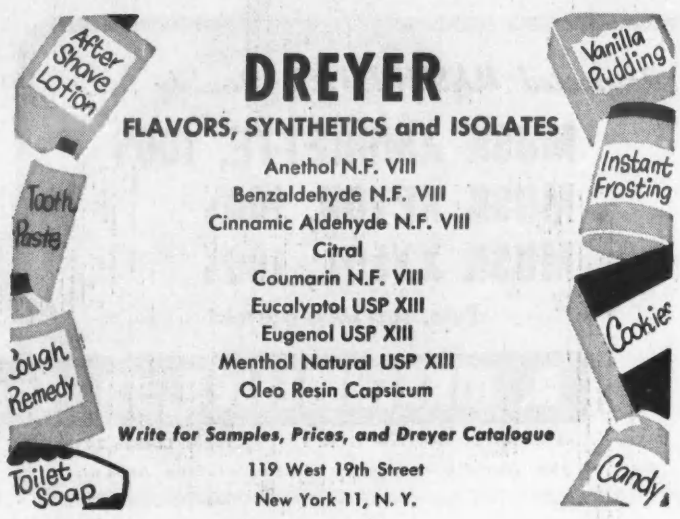

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Botanical Market

—Continued from page 70

price on wheat has been raised. Hence, Montana farmers usually producing the bulk of domestic yellow are disposed to sow less mustard seed and more wheat.

Poppy—Dutch seed ranged 17½c. to 17¾c. per pound, the range being narrower. Turkish seed was shaded to 13½c. to 14c. Czech remained nominal at 15½c.

Spices

Cassia—All varieties were in dwindling supply. Batavia longstick was higher at 19c. to 19½c. per pound and shortstick was up to 16c. to 16½c. All medium Saigon was advanced to 42c. to 43c. and broken material was 36½c. to 37c. Quotations on China cassias were entirely nominal.

Cinnamon—Demand and replacement has combined to send spot quotations up to the basis of 26c. to 26½c. per pound on the No. 2 grade.

Clove—Unceasing strength in all markets—shipment and consuming—resulted in spot quotations being jumped to the basis of $1.62 per pound, usually quoted without offer and always subject to confirmation.

Ginger—African root advanced to 14¾c. to 15c. per pound on spot and November-December shipment was up to 14c. to 14½c. Extremely low prices obtained for the last crop has discouraged production in Africa and the next crop has been forecast as small. It should not surprise if all varieties of ginger root were underproduced in the coming crops since the last crops were sold at vastly depressed prices.

Nutmegs—East Indians were higher at 33c. to 34c. per pound for good quality and 32c. to 33c. for shrivels. West Indians remained unchanged at 30c. to 31c.

Paprika—Foreign markets supplying whatever variety of this item have advanced sharply, carrying spot quotations with them and establishing a local market at 34c. per pound for Czech, and 41c. to 44c. for Spanish.

Pepper—Spot black Malabar pepper eased slightly to $1.62 per pound during the greater part of last week. Nearby Malabar was $1.58 to $1.59; October shipment Lampong, $1.37 to $1.38; Malabar, $1.51. Unsold stocks on this market were relatively small and any material increase in demand would probably find quick reflection on spot in the form of advancing prices.

Red peppers were very strong. All varieties were in small supply, cannot be readily obtained in primary markets, and under good demand appeared destined for higher levels in the weeks ahead. Spot quotations were advanced last week to the following levels:—Carolina longs, 38c. to 40c. per pound; Japanese hontaka, afloat, 52c. to 54c.; Louisiana longs, 41c. nominal; Mississippi sports, 41c. nominal; Turkish, for shipment, 35c. to 35½c. White pepper was down to $1.51.

Friday noon quotations on black pepper were as follows:—Malabar, spot, $1.60 per pound; nearby, $1.57; October shipment, $1.51; Lampong, October shipment, $1.40; November shipment, $1.33; Malabar, $1.40 to $1.41; December shipment, Malabar, $1.31 to $1.32.

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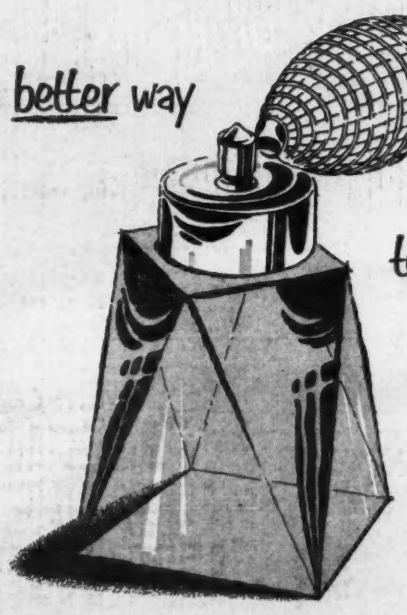

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Protective Coatings Materials

At the beginning of last week, the advance in lead metal was reflected in the schedules for lead oxides. Red lead, litharge, and orange mineral were up ½ cent by the increase. A producer of dibasic lead phthalate and dibascic lead stearate announced reduction of these vinyl stabilizers. Bleached grades of shellac were reduced 2 cents last week. Argentine casein was 1 cent higher for spot material.

The reduction in antimony had not been reflected in the market for antimony oxide by press-time, but a decrease was being considered. Demand for this pigment has not shown much change. Zinc oxide continued to move fairly well and prices remained the same as previous weeks. It was said that there was some indication that the metal was a bit firmer currently. Producers were also watching for indications whether or not England was going to put zinc on an open market as they have done with lead.

There were price revisions in some synthetic resins effective November 1. One producer advanced alkyds, while another reduced them, thus the range between various producers' schedules was cut down a bit. There were some reductions in melamines and urea-formaldehydes. And, some increases were announced for a few modified phenolics, maleics, and ester gum. Coumarone-indenes were moving quite well. Producers were moving all of their output. Styrenes and terpenes also moved well.

The natural gums have been moving a bit better in the past several weeks. Importers expected this market to be fairly good. The casein market was described as being somewhere between very dull and mild activity by various importers. Importers were still concerned over their lack of license quotas.

Prime Pigments

Antimony Oxide—There was no change in the number of requests for this material last week. Demand has not shown much sign of significantly picking up. Supply was ample for the current levels of consumer requirements. The price schedules of this oxide were unchanged at press-time, however a reduction in the antimony market earlier in the week was taken as an indication that there might be some revision here.

Lead, Red—The price schedules of this oxide were advanced ½c. reflecting the increase in metal prices. It was said that prices have been too low but producers had to follow the London market. The current increase in metal was said to have been brought on by a firmer tone in London and by increased demand.

Current quotations of the material which is 95 percent Pb_3O_4 were 16¾c. per pound in carload quantities, and 17¾c. per pound in less than carloads. Quotations of 97 percent material were 17c. per pound in carlots, and 18c. per pound in less than carlots. Carloads of 98 percent Pb_3O_4 were 17¼c. per pound, and less than carloads were 18¼c. per pound.

Litharge—A price advance of ½c. per pound followed the activity in lead metal. Current schedules quoted by producers of this oxide were at 15¾c. per pound for carlots, and 16¾c. per pound for less than carlots.

Orange Mineral—Last week's advance in the price of lead metal carried the schedules for this oxide along with it. The resulting ½c. increase brought producer quotations up to 20.10c. per pound in less than carlots.

Zinc Oxide—Demand for this pigment was fairly well sustained. Producers reported that the material was moving right along. Prices have been unchanged since the recent revisions. It was said that members of the trade were contemplating what results would be forthcoming if England put zinc on a free market with open trading after January 1, as they already have done with lead metal. It was added that some individuals felt that England would open trading, and others felt that it would not put zinc on a free market. However, it was felt that the results might well follow the line of developments which took place when lead was freed in London. In any event, producers felt that the situation was well worth watching.

Lacquer Materials

Dioctyl Phthalate—According to information received from the Tariff Commission, August production of this plasticizer was 7,768,838 pounds, compared with 6,504,333 pounds produced in July.

Tricresyl Phosphate—Production figures from the Tariff Commission indicated that August output was 858,884 pounds, compared with 1,224,395 pounds produced in July.

Market Trends

Prices Advanced

Casein, Argentine, 1c. per lb.
Lead, red, 95%, ½c. per lb.
97%, ½c. per lb.
98%, ½c. per lb.
Litharge, ½c. per lb.
Orange, mineral, ½c. per lb.

Prices Reduced

Lead, phthalate, dibasic, 1½c. per lb.
stearate, dibasic, 2c. per lb.
Shellac, bleached, bonedry, 2c. per lb.
refined, 2c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
88.43	88.43	88.44	101.19

(*For Current Prices see Page 9*)

Synthetic Resins

The following production information comparing August and July output, in pounds, was supplied by the Tariff Commission.

Production

	August	July
Phenolic and other tar acid resins:—		
Laminating resins	4,973,470	4,604,189
Adhesive resins	3,923,644	3,560,654
Protective coating resins, unmodified, modified except by rosin	2,075,199	2,064,933
Urea and melamine resins:		
Adhesive resins	7,213,590	5,053,779
Protective coating resins, straight, modified	1,666,693	1,646,261
Styrene resins:—		
Protective coating resins, straight, modified	6,323,509	6,500,815
Alkyd resins for protective coatings:—		
Phthalic anhydride types:		
Unmodified	16,670,485	16,105,021
Modified with tar acids, rosin, and/or other materials	6,845,380	6,276,058
Polybasic acid types (except phthalic):—		
Unmodified	946,563	991,646
Modified with tar acids rosin and/or other materials	644,481	513,977
Rosin modifications for protective coatings:—		
Rosin, rosin esters, unmodified (ester gums, etc.):—		
Esterified with glycerol	1,211,367	1,951,150
Esterified with other alcohols	1,491,704	1,357,348
Rosin, rosin esters, modified:—		
Modifications with phenolic and other tar acid condensates	1,471,076	1,359,327
Modifications with maleic and fumaric acids	2,447,904	2,085,930
All other modifications	950,285	582,113
Coumarone-indene and petroleum polymer resins	13,680,397	14,161,997
Miscellaneous synthetic plastic and resin materials:—		
Protective coating resins (including epichlorohydrin, acrylic, polyester, silicone and other resins)	1,490,787	1,469,050

Alkyds—The market for these synthetics was still quite good. Demand has been held up well. One producer announced increases in the prices of some alkyds effective November 1. At the same time, another producer announced a readjustment of the schedules of some alkyds which took form of a 1c. reduction. The movement of prices in both directions was the result of the unsettled price conditions created when producers attempted to put synthetics on a better paying basis early in September. At that time various producers advanced schedules by widely different amounts, making a substantial gap between various suppliers' prices.

Coumarone-indenes—A source reported that these resins were moving along very well. Production was at capacity and demand was strong. It was felt that the current levels of activity would hold up through the first quarter of next year. One source stated that it had fairly well taken care of most of the supply problems. Prices have remained at previously established levels. One producer stated that it did not forsee any price revisions even after the first of the year.

Styrenes—A producer of polystyrene resins stated that this market was moving along very satisfactorily. Prices have held to their previous levels. Supplies were adequate for the immediate needs of consumers.

Terpenes—The market for these resins has not changed much in recent weeks. The material was moving along nicely. Demand has been kept up to a good level. Prices have not changed. One source re-

For Late Market Developments, See Page 4

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ported that it did not anticipate changing the price schedules this year, or even after the first of next year.

Natural Resins

The market for the gums has shown some improvement in the past several weeks. Importers said that they felt that the next few months would be fairly good months. Supplies were adequate for the current levels of demand. Prices were generally steady, although there were some slight changes. Most gum prices were believed to be at bottom now, and were not expected to go lower.

Shellac — Price schedules of the bleached grades were reduced 2c. last week. Importers said that the reason for the belated change, while the oranges were relatively stable, was that bleached purchases are necessarily 60 days in advance. Liquid shellac was also reduced last week, due to the alcohol situation and lower prices of shellac at the primary market, it was added.

Current quotations of bonedry were 44c. per pound in bags, 45c. per pound in barrels, and 47c. per pound in kegs. Refined material was 54c. per pound in bags, 55c. per pound in barrels, and 57c. per pound in kegs. Orange grades were still a bit soft pricewise but there were no real changes in the range of importers quotations of most grades. However, one source quoted TN at a price 1c. above the former range, making the current range for that grade 25c. to 29c. per pound in 10-bag lots.

Miscellaneous Materials

Casein—The market for casein was felt to be rather quiet, although one source stated that there was some sign of a little revival towards the end of the week. Other importers felt that the market was still very dead. Thus, it depended upon whom you asked, what the description would be. Most members of the trade were agreed that one of the biggest factors in the market last week was the licensing situation. Many importers ran through their license quotas several weeks ago when the heavy buying of the mills was on. Consequently, many importers could do nothing except leave the casein in bonded warehouses until the next license quotas are available, it was said. Current quotations of Argentine spot material were 1c. higher than previous weeks, although futures for arrival in two weeks could be obtained at 20½c. Importers quotations on spot were between 22c. and 23c. per pound.

Glue, Hide—September production was 4,282,422 pounds, compared with August output of 4,230,975 pounds, and September 1951 production of 4,913,941 pounds, according to the Bureau of Census. Total shipments in September were 5,042,739 pounds, compared with 4,401,614 pounds in August, and 4,323,458 pounds in September of last year. Stocks at the end of September were 18,612,226 pounds, as against 19,372,543 pounds in August, and 9,224,651 pounds in September 1951.

Lead Phthalate—A producer of the dibasic material announced a reduction of

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Warwick Vice-President

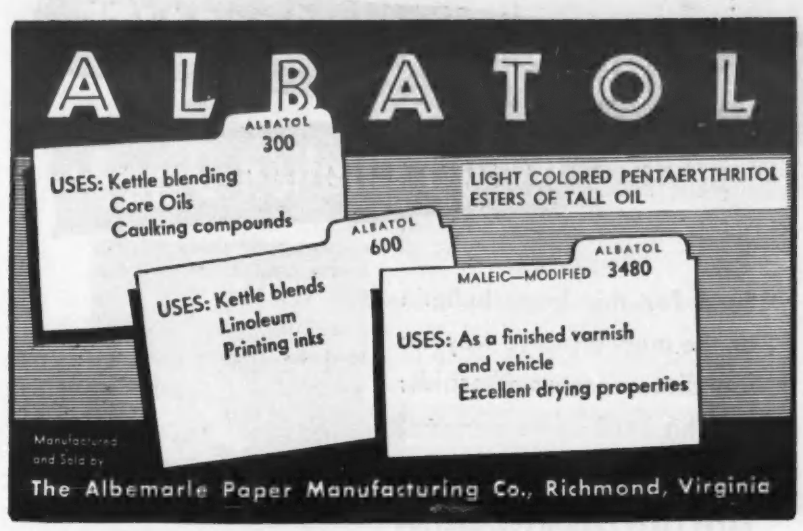
Harold C. Whittemore, jr., has been named vice-president of the Warwick Chemical Company, a division of Sun Chemical Corporation, Long Island City, N. Y. Mr. Whittemore joined Sun Chemical in 1946 and served the firm in Chicago for five years. His most recent post has been as assistant to the president at Sun's headquarters. In his new assignment, Mr. Whittemore's headquarters will be at the Wood River Junction, R. I., plant. Donald J. Eccleston and Ira S. Hurd will continue as general manager and general sales manager, respectively, under Mr. Whittemore.

Schenectady Varnish Co. Completes Rotterdam Plant

Schenectady Varnish Company, Schenectady, N. Y., has announced completion of a new plant in Rotterdam, near Schenectady. The facility has been designed for large scale production, with special attention to quality control. The plant features continuous processing of finished products from basic chemicals. Raw materials, resins and varnishes are moved through various processes by gravity feed and gas pressure. Only a few miles from the company's main facility, the new plant will take advantage of the company's extensive development laboratories.

New England Paint Club Hears Conlon Thursday

The New England Paint, Varnish and Lacquer Association will hold its next meeting November 13 at the Statler hotel, Boston, Mass. Cocktails will be served at 5:30 p.m., with dinner following one hour later. Speaker will be J. H. Conlon, servicing manager of the New England Telephone & Telegraph Company, who will talk on "TV Skyways."



this and several other chemical stabilizers for the plastic industry last week. Current schedules of dibasic lead phthalate were 41c. per pound, 1½c. less than previous quotations.

Lead Stearate—The price of dibasic material was reduced last week, as one producer announced a revision of schedules for many chemical stabilizers used in the plastics industry. The reduction in this instance was 2c. per pound, making the price 54c. per pound in ton lots.

Schedules for the precipitated grade stearate were unchanged at 39c. per pound in carlots, 40c. per pound for ton lots, and 41c. per pound for less than ton lots.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.[1]	Wed.	Thur.
E	...	...	...	7.35*	...
G	...	7.35*	...	...	...
K	7.25‡	7.35*	...	7.23*†	7.25*
M	...	...	...	7.33*	...
N	...	7.33*	...	...	...
WG	...	7.36*‡	...	...	7.45‡
WW, X	7.50‡	7.58*‡	...	7.66*	7.72*
Sales, USDA		1,987*			913*

Savannah Exchange (per 100 lbs., dms.)

Receipts	...	...	...	135	...
Shipments	...	...	...	436	...
Stocks	9,936	9,867	...	9,566	9,566

New York
(per 100 lbs., c.i., Friday)
B—N, $8.35; WG, $8.50; WW, $8.80.

Rosin, Wood

(USDA, per 100 lbs.)

FF	4.23*†	4.15†	...	...	5.33*†

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.5375†	.535†	...	...	.539†
Sales	8,000§	12,000§	...	...	10,000§

Savannah Exchange (dms.)

Receipts	149	160	...	229	72
Shipments	59	...	...	289	5
Stocks	1,765	1,901	...	1,841	1,909

New York, Friday, per gal., 7 lbs., tankcars, 63c., l.c.l., 73½c.

Turpentine, Wood, Steam Distilled

(USDA, per 7 lb. unit)

.433†	.58*	...	...	.58*

*Drums. †Tankcars. ‡Bags. §Gallons. [1]Holiday.

A.E. Staley Co. Correction

In its report on the appointment by A. E. Staley Manufacturing Company, Decatur, Ill., of W. C. Holzhauer to an exclusive sales agency in the New York market, which appeared in the October 20th issue, OPD failed to state that the Holzhauer organization was named exclusive sales agent for Staley's industrial vegetable oils. The Holzhauer concern is not the exclusive New York sales agent for all Staley vegetable oils, as previously implied. Burt Riggs will be in charge of industrial sales for Holzhauer.

Amer. Polymer Issues Data Sheets

The American Polymer Corporation, Peabody, Mass., has announced the issuance of two new technical data sheets, one on "Polyco 426" and the other on "Polyco 497." The former is an aqueous dispersion o a nitrogen-containing terpolymer, and the latter is an alkali-soluble polyvinyl acetate copolymer in water dispersion.

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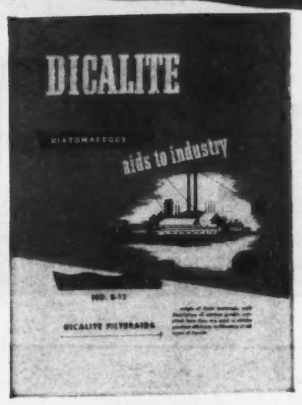

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New York Paint Club Pres. Gets Arthur Masters as Aid

The executive committee of the New York Paint, Varnish and Lacquer Association has officially approved the appointment of Arthur W. Masters as assistant to the president. Mr. Masters, who will make his headquarters in the association office at 2 Park avenue, New York, will in no way change the duties of Helene Senker, assistant secretary, it was pointed out.

Mr. Masters started in the paint industry in the early thirties with the Acme White Lead & Color Works, Inc. Later he was transferred to the Martin-Senour Company, and thereafter became affiliated with the Ditzler Color Divsion of Pittsburgh Plate Glass Company. In 1945, when the Beckwith-Chandler Company was bought by Devoe & Raynolds Company, Mr. Masters joined that organization to become sales manager of the automotive division, which post he held until his recent resignation.

Dow's New Plastics Unit Now in Full Production

The new plastics plant of the Dow Chemical Company at Allyn's Point, Conn., on the Thames River, went into full production in mid-October upon arrival of the firm's leased tanker, Marine Chemist, with the first bulk cargo of styrene monomer ever transported by ocean-going vessel.

The chemical, produced at the company's facilities at Freeport, Tex., is used in the manufacture of "Styron" (Dow polystyrene) granules. Additional shipments of styrene from Freeport to Allyn's Point are expected to be made at frequent intervals.

Construction of the plant was started in October, 1950, and production began last August on a limited basis, with supplies of styrene received by tankcar from Freeport.

Los Angeles Paint Technicians Schedule Meeting for Wednesday

The Los Angeles Paint and Varnish Production Club will hold its next meeting Wednesday at 6:45 p.m. at Sculley's.

Dr. Reed Brantley, of Occidental College, will speak on "Progress Report on Adhesion of Paint Films." Roswell J. Blackinton, of the General Electric Company, will have as his topic "Pigment Mixture Analogue Computer." W. H. Jones, of the U.S. Testing Laboratories, will speak on the club project, "Calibration of the Sward Hardness Rocker." A film on "Fire Fighting Methods and Equipment," will be presented by Walter Beaman, of the Walter Kidde Company.

Monanto's Ohio Resins Plant Now in Operation

Production of industrial resins at Monsanto Chemical Company's newly-acquired plant at Port Plastics, Ohio, got under way last month, was announced by R. K. Mueller, general manager of the company's plastics division.

Located on a 115-acre site on the bank of the Ohio River near Cincinnati, the plant is expected to become a major midwest production and distribution point for Monsanto plastics. Monsanto's "Krilium" soil conditioner has been produced at the plant since last spring. Operations here will supplement those at the plastics division's headquarters at Springfield, Mass.

Trade Briefs

Rinshed - Mason Company, Detroit Mich., has named V. Kenneth McHugh advertising and sales promotion manager.

Synthane Corporation, Oaks, Pa., has added a two-story brick wing to its plastic plant.

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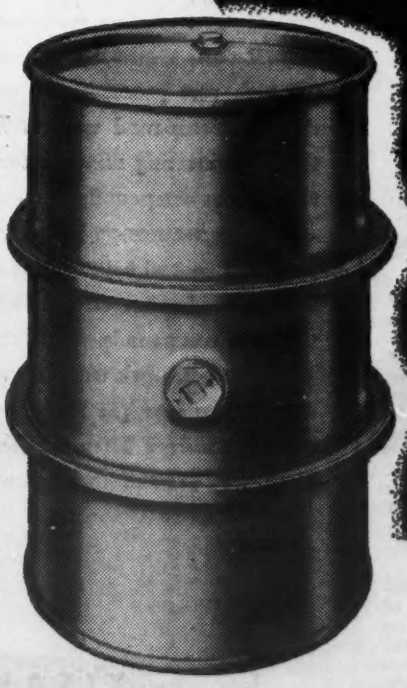

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Naftone Names Johnson Marketing Vice-President

Naftone, Inc., New York, has named Harold M. Johnson vice-president in charge of marketing. Naftone is the sole distribution agency for Oronite metal naphthanates and distributors for Oronite

Harold M. Johnson

naphthenic acid, polybutenes and wetting agents.

Mr. Johnson has been identified with the protective coatings industry for nearly thirty years, two-thirds of which time have been devoted to the marketing of raw materials to makers of paint and allied products throughout the United States and Canada. He began his career with the Murphy Varnish Company, Newark, N. J., where, after spending two years in the varnish stacks, paste and milling departments, he was made chief chemist and put in charge of all laboratories.

From 1931 to 1939 Mr. Johnson was active in the Beck Koller & Co., now Reichhold Chemicals, Inc., first as director of technical service and later as vice-president in charge of eastern sales. In 1939 he became vice-president in charge of sales of Nuodex Products Company and continued to occupy that post during the next twelve years.

In the fall of 1951, Mr. Johnson formed H. M. Johnson, Inc., to evaluate and market relatively new chemical raw materials for the paint and allied industries. Several of the materials Mr. Johnson has been interested in during the past year will be taken over by Naftone. In his new post, Mr. Johnson will make his headquarters at Naftone's main office in New York.

Glidden Co. Will Market First Latex Base Enamel

The first latex emulsion base interior enamel ever developed commercially will be marketed next spring by the Glidden Company, Cleveland, Ohio, it has been announced.

A. D. Duncan, vice-president, said the new latex base enamel will be produced in a full range of colors from deep tones to pale pastels to match those of Glidden's "Spred Satin Dramatone System." The "Dramatone System" was developed by Glidden a year ago to enable the homemaker to mix easily, and exactly, any of 180 colors of "Spred Satin," Glidden's latex emulsion base interior paint.

According to Mr. Duncan, the new latex base enamel is designed primarily for interior woodwork, bathroom and kitchen walls.

Atlas Offering New Solid Polyester Resin

Atlas Powder Company, Wilmington, Del., is offering a new solid polyester resin, "Atlac LV." After dissolving in styrene, it is said to possess a viscosity in the low range required for application to glass fibers or other types of pre-forms by spraying, dipping or brushing. Like other "Atlac" dry polyesters, the new resin is supplied in the form of free-flowing granules. The product is also claimed to have the advantage of low exotherm with room temperature catalysts. Trial samples are available from the Atlas industrial chemicals department, Wilmington, Del. The company states that it can supply production quantities on short notice.

Loomis Names Whittaker

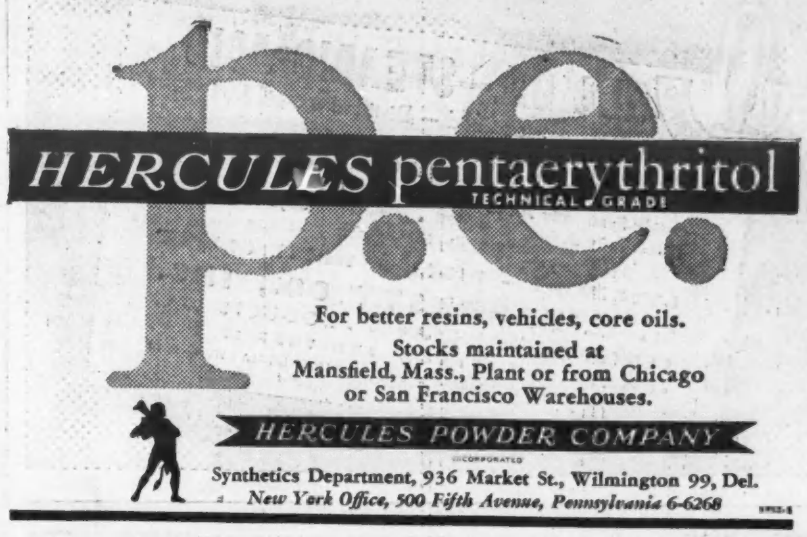
W. H. Loomis Talc Corporation, Gouverneur, N. Y., has announced that its fibrous talc mined in northwestern New York state is being distributed by Whittaker, Clark & Daniels, Inc., New York, for all industries except the ceramic trade in Massachusetts, Rhode Island, Connecticut, New Jersey and southeastern New York state. Distribution for the ceramic industry in that territory is handled by Donald Hagar, Zanesville, Ohio.

Dallas Paint Club Elects Officers; Robbs New Pres.

The Dallas (Tex.) Paint Club has announced its new slate of officers for the coming year. They are:—

President, James H. Robbs, manager of the industrial chemical department of Van Waters & Rogers, Inc.; vice-president, D. E. Eichelberger, general manager of the Sewall Paint & Varnish Company; secretary, Wade Martin, southwest sales manager of the pigment division of the Eagle-Picher Company, and treasurer, J. C. Webb, Dallas sales manager of the Sherwin-Williams Company.

The club meets on the last Tuesday of each month at the Melrose hotel, and has extended an invitation to attend to members of any other paint clubs as well as to others in the paint industry.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Oils, Fats and Waxes

Firmest oils on the list were coconut and peanut oils. Coconut oil price trend continued upwards reflecting the increased cost of copra and light offerings for shipment. Tight supply condition of peanut oil was unimproved as the government did not release peanuts for crushing. Stocks of oil were scarce and light trading took place at an advance of 1 cent per pound.

Higher cost of coconut oil resulted in further price increases for coconut fatty acid, capric, caprylic, lauric and myristic acids. Copra turned strong and was up $20 per ton.

Among edible crude oils soybean was firmer, advancing fractionally, while cottonseed was slightly lower. Corn oil was unchanged and fairly steady.

Firmness of flaxseed and unsettled oilmeal market, created a stronger tone in linseed oil. Prices were slightly higher and well held. Crude menhaden oil was firmer and lifted fractionally. This strength was reflected in refined fish oil and asking prices could not be shaded for carlots quantities as heretofore. Tung oil was in slow demand and lower for spot and forward delivery.

An active inquiry was noted for tallow and greases for domestic and export delivery. Offerings were limited at prevailing prices, which restricted tradng for soapers account. Exporters were in the market for low grades of tallow and greases and moderate volume of sales were reported at premiums of about ¼ cent per pound.

Higher cost of castor beans has stiffened the castor oil market. Shipments of oil from Brazil were scarcer and lifted fractionally. Domestic oil was unchanged, but prices were steadier. Edible olive oil was well held on the spot and prices were strong despite quiet demand.

Market Trends

Prices Advanced

Acid, capric, 2c. per lb.
Caprylic, 2c. per lb.
Coconut, fatty, 2c. per lb.
Lauric, 90%, 2c. per lb.
60%, 1c. per lb.
Myristic, 2c. per lb.
Copra, $20 per ton.
Lard, ⅝c. per lb.
Oil, castor, Brazilian, No. 1, ¼c. per lb.
Coconut, crude, ¾c. per lb.
Linseed, 2/10c. per lb.
Menhaden, crude, ½c. per lb.
Peanut, crude, 1c. per lb.
ref., 1c. per lb.
Soybean, crude, ¼c. per lb.
ref., alkali, ¼c. per lb.
clarif., ¼c. per lb.
salad, ½c. per lb.

Prices Reduced

Oil, cottonseed, crude, ¼c. per lb.
foots, 90%, ¾c. per lb.
ref., ¼c. per lb.
Oleo, 1½c. per lb.
Tung, ¼c. per lb.
Oleo stearine, ¼c. per lb.
Wax, ouricury, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Nov. 9, 1951
119.70	116.54	113.55	132.68

(*For Current Prices see Page 9*)

Vegetable Oils

Castor Dehydrated—This market was firmer reflecting the increased cost of castor beans. Demand for oil was confined to prompt requirements. Prices were maintained at former levels.

Coconut—Market remained strong and fractionally higher. Crude oil was held at 15½c. per pound, tankcars, f.o.b. Pacific coast, November shipment, and 15¼c., December. The New York was nominal at 16¾c. per pound, tankcars, for late November delivery.

Copra—Shipments were firmer and advanced to $210 per ton, c.i.f. Pacific coast, and at $215 per ton, New York. Offerings were scarce.

Corn—Market was unchanged and steady. Crude oil was sold at 14c. per pound, tankcars, f.o.b. mills. Refined oil also was unchanged at 17¼c. per pound, tankcars, New York basis.

Cottonseed—Trading in bleachable cottonseed oil futures was light and mixed last week. Prices were slightly lower and influenced by fluctuations in allied markets. Trade buyers absorbed offerings of December and the bulk of November tenders, which totaled 51 contracts. Demand was active for refined for prompt delivery. PMA reported that 3,153 tankcars of new crop crude cottonseed oil and 96 tankcars of refined oil were placed under government support program up to the end of October, bringing the total of new and oil crop oil to 5,449 tankcars held by the government. Some 2,334 tankcars of new crude and 96 tankcars of refined oil were tendered at New Orleans; 644 tankcars of crude, Dallas and 255 tankcars, crude, San Francisco. Private estimates of the cotton crop ranged from 14,200,000 to 14,900,000 bales as of November 1.

Crude cottonseed oil was unsettled and lower. Tankcars were quoted nominally at 13¾c. per pound, Southeast and Valley and 13½c., Texas.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Nov. 7 follow:—

	Sales	Cents per pound High	Low	Close
November	10	16.13	16.13	16.18@16.25
December	196	16.35	16.09	16.24S
March	156	16.58	16.25	16.36S
May	231	16.67	16.30	16.40S
July	67	16.51	16.35	16.43S
September	27	16.54	16.29	15.80N

Total sales, 687 contracts.

Memphis.—Crude cottonseed oil nominal at 13¾c. per pound, tankcars, f.o.b. mills and crude soybean oil 11¼c., Decatur, November delivery. Cottonseed meal in fair request at ceiling prices in Memphis territory, but quiet and easier in the Southeast. Cottonseed hulls in good demand at ceilings.

Linseed—Conditions in this market remained steady as a result of the firmness of flaxseed. Raw oil was fractionally higher at 15c. per pound, tankcars, f.o.b. Minneapolis and 16.25c. per pound, tankcars, New York delivery. Crushers were firm in their views and it was doubtful if lower bids could have shaded the market. Withdrawal of oil against former contracts continued at a good pace. Inquiry for forward requirements continued slow.

Minneapolis.—Trade in linseed oil was dull the past week and only usual fill-in sales were reported in this area. Asking quotations were maintained at 15c. per pound, in tankcars, f.o.b., Minneapolis, as flaxseed costs held firm. There was little incentive to add to contracts at the higher levels as long as oil sales were made several points under 15c. a fortnight back. The trade—jubilant over the GOP victory last Tuesday—saw no immediate change in the present farm program as legislation controlling it does not expire for two years. There might be some possible top-level policy changes, which could have an enlightening effect on the closely-controlled markets, trade observers said.

Shipments of linseed oil, in pounds, were as follows:—

	1952-53	1951-52
Past week	7,320,000	8,460,000
Since Sept. 1	88,920,000	82,080,000

Flaxseed—Reduced seed offerings kept the market firm. Trading was moderate at higher levels.

Minneapolis.—Processors firmed up bids on cash flaxseed the past week as marketings began to taper off. Bids on No. 1 flaxseed were 1c. a bushel under spot futures contract, or 1c. better than in the previous week and 2c. to 3c. better than several weeks ago—when bids were several cents under the future price. Sales ranged from $4.09 to $4.13 a bushel, with the lower prices being paid at mid-week, due to weakness in the futures market. Receipts for the week amounted to 142 cars as against 221 cars in the previous week and 290 cars a year ago. Shipments totaled 37 cars as against 50 cars in the preceding week and 45 cars a year ago. Crushers and elevator interests purchased 34 cars and 25,000 bushels in trucklots in the spot cash market and 15 cars and 76,000 bushels on a "to-arrive" basis. There was no feature to futures trade, only the usual amount of hedging.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1952-53	Receipts 1951-52	Shipments 1952-53	Shipments 1951-52
Past week	241,400	540,400	62,900	95,900
Since Sept. 1	9,462,700	12,680,800	1,218,350	1,701,900

Oiticica — Trading was reported slow. Prices were unchanged and steady. Refined oil ranged from 22c. to 22½c. per pound, tankcars, prompt delivery. Drums were held at 23½c. to 24½c. per pound, depending upon quantity.

Olive—Buying interest lacked snap as consumers continued to operate in a hand to mouth manner. Edible oil was firmer at $2.35 to $2.50 per gallon, drums, on spot duty paid, according to quality and quantity. Stocks on spot were ample. Olive foots were quoted nominally at 15c. to 15½c. per pound, drums, as to quantity.

Palm—Higher cost of replacements and clearance of stocks on spot have stiffened the market. Clarified oil was quoted at 13.40c. per pound, drums and 11.6c. per pound, tankcars, New York for January-February arrival.

Peanut—Crude oil was scarce and up 1c. per pound. Sales took place at 20c. per pound, tankcars, f.o.b. mills. Refined oil also was firmer and held at 23½c. per pound, tankcars, New York basis. The government has not released peanuts for crushing and the outlook is not promising.

Rapeseed—Trading was spotty. Re-

For Late Market Developments, See Page 4

Margarine Output: Sept.

Margarine production totaled 125,694,000 pounds in September, compared with 86,564,000 pounds in August, and 85,074,000 pounds in September, last year, according to the Census Bureau.

Production and Producers' Shipments and Stocks of Oleomargarine

	Uncolored	Colored
Stocks, beginning of mo.[1]	2,008,000	10,322,000
Production	10,256,000	115,438,000
Shipments	10,597,000	114,460,000
Stocks, end of mo.[1]	1,667,000	11,300,000
Production by type of package[2]—		
One pound		
Regular (Elgin, Western, etc.)	3,212,000	[3]112,050,000
Bags (plastic)	3,251,000	.....
Bulk		
Pats or chips	.....	1,221,000
Over one pound (excluding pats and chips)	3,793,000	2,138,000

[1] Stocks held at production plants only. Total factory and warehouse stocks at the beginning and end of September were 15,584,000 pounds and 18,615,000 pounds, respectively.
[2] The sum of these items does not agree with production shown above because some oleomargarine is not packaged during the same month in which it is produced.
[3] Includes small quantity of less than one pound packages.

Production of Oleomargarine: Monthly and Annual Totals

	Uncolored	Colored
1952—9 mos. (Jan.-Sept.)	103,745,000	822,051,000
1951—9 mos. (Jan.-Sept.)	169,125,000	577,778,000
1951 annual production	211,104,000	825,237,000
1950 annual production	437,402,000	489,643,000
1949 annual production	684,516,000	177,246,000

fined was maintained at 16½c. per pound, tankcars, New York delivery.

Soybean—Crude oil was firmer. Trading was light. Sales were reported at 11¼c. per pound, tankcars, f.o.b. mills, November delivery and 11⅛c., December. January-June was quoted at 11c. same basis. Refined salad oil was higher at 13⅞c. per pound, tankcars, New York delivery. Alkali refined and clarified were lifted ¼c. per pound.

Sales and prices of prime crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended Nov. 7 follow:—

	Sales	Cents per pound High	Low	Close
December	22	11.22	11.05	11.22S
March	36	11.20	11.00	11.16@11.20
May	46	11.21	11.00	11.21@11.23
July	17	11.30	11.00	11.23@11.25

Total sales, 121 contracts.

Tung—This market continued unsettled due to slow demand. Tankcars were easier and available at 37½c. per pound, New York for immediate and November delivery and 36c. for December. Drums were lower at 39c. per pound, carlots and 39½c. to 40c. for lesser quantities.

Fats and Greases

Greases—Active export inquiry featured the market. Trading was moderate, as offerings were limited. Choice white and yellow greases were moved at premiums of about ¼c. per pound. Domestic demand was light. Prices were steady for all grades. Choice white was quoted at 6c. per pound, tankcars, delivered; yellow, 4⅛c.; house, 3⅞c. and brown, 3½c., same basis.

Lard—This market was firmer and advanced fractionally. Export business improved. Mexico purchased 2,500,000 pounds. Cash lard was quoted at 8¾c. per pound, tierces, Chicago.

Tallow—Market was steady at unchanged quotations, reflecting the firmness in the West. Buying interest from soapers was quite active at current prices, but trading was light owing to the scarcity of offerings. Export inquiry was active for lower grades. Fancy was maintained at 5⅝c. per pound, tankcars, delivered; extra, 5⅜c.; special, 5c. and No. 1, 4¾c., same basis.

Animal Oils

Consuming demand for grease, neatsfoot and tallow oils was restricted to actual needs. Prices were unchanged and well held, reflecting the improved tone of tallow and greases. While industrial grades were steady, oleo oil and oleo stearine were weaker. Oleo oil declined sharply and was quoted at 12½c. to 13c. per pound, drums, as to quantity and stearine also was lower at 9¾c. to 10¼c. per pound, barrels, same basis.

Fish Oils

Cod—Business was reported light on spot and for shipment. Tanked oil was nominal for shipment at 9c. per pound, drums, exdock. Spot stocks were quoted at 10c. to 10½c. per pound, drums as to quantity.

Refined—Trading in refined oil continued spotty and for actual needs. Light pressed was unchanged and maintained at 10½c. per pound and alkali refined at

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11½c. per pound, tankcars, New York delivery. Crude menhaden oil was higher at 7½c. per pound, tankcars, Baltimore and at 6½c., same basis, Gulf ports.

Los Angeles.—Trading was extremely light last week. Rumors of sales of two cars of crude tuna at 6c. per pound, f.o.b. San Pedro, were unconfirmed. Menhaden oil quoted 6¼c.-6½c. per pound, f.o.b. Gulf ports. Mackerel oil remained nominal at 7c. per pound, f.o.b. San Pedro. Supplies of Canadian herring oil were reported exhausted with last sales at 7c. per pound, f.o.b. Seattle. Pilchard fishing operations were halted during the present light-of-moon period. Landing receipts for the San Pedro-Long Beach area total 1,515 tons of sardine through November 3, compared to 72,702 tons for the same period last season.

Fatty Acids

Additional price advances were announced for coconut fatty acid and other acids derived from coconut oil. Caprylic, capric, coconut and myristic acid were lifted 2c. per pound, the second advance during the past fortnight. Lauric acid 90 percent also was up 2c. and 60 percent 1c. per pound. Other vegetable oil acids were without change and steady. Trading was fairly active for most varieties for prompt delivery. Red oil and stearic acid also were in good request—and maintained at prevailing quotations.

Cake and Meal

The date when new ceiling prices will apply to all contracts of cottonseed and flaxseed feed mixes for future delivery has been deferred for one month by the Office of Price Stabilization. Amendments to cottonseed and flaxseed regulations provided that the new ceilings would not apply to deliveries if they were made not later than October 31 under contracts entered into before October 3. This October 31 cut-off date has been extended to November 30 for delivery of mixes contracted for before October 3. OPS said the purpose of the new amendments is to afford sellers of cottonseed and flaxseed feed mixes treatment similar to that given sellers of soybean meal mixes.

Cottonseed Meal—Trading continued very light as soybean meal is figuring considerably cheaper to most heavy consuming areas. Mills are still asking ceiling prices for all shipments but re-sellers are still willing to take $2 to $4 per ton below mills ceilings in order to get shipping instructions. The general overall demand for cottonseed meal is slow.

Linseed Meal—Crushers continued to offer meal sparingly and favored the regular trade. Market was steady at the ceiling.

Minneapolis.—There was good buying interest on linseed meal at the ceiling level of $78 a ton, bulk, in carlots, f.o.b. Minneapolis, but processor offerings were scarce. The market situation was unchanged, with crushers parceling out supplies sparingly to regular trade. Resellers offered meal at $80 to $80.50 a ton, bulk. Shipping specification against old balances held up well.

Shipments of linseed meal, in pounds, were as follows:—

	1952-53	1951-52
Past week	13,740,000	15,540,000
Since Sept. 1	130,980,000	145,960,000

Peanut Feed—A few lots of peanuts that are low in quality and cannot pass the standards for edible use are being crushed, which amounts to very small amounts of peanut feed. The asking prices on 45 percent feed is $90 f.o.b. South Georgia and Alabama mill points sacked for November shipment, but demand is inactive. Abundant supplies of cottonseed and soybean meals at cheaper prices has caused feed manufacturers to discontinue the usage of peanut feed except in special formula feeds.

Soybean Meal—Most of the large buyers continued on a hand-to-mouth basis, with only occasional sales being made for deferred shipments. Soybean processors, on the other hand, are reluctant to cut prices except in cases of necessity to get shipping instructions, making the asking prices for immediate shipments the cheapest and a gradual increase in price for deferred shipments. Meal 44 percent bulk was quoted at $76 per ton bulk for November; $78 December; $80.50 January-April, and $81.50 April-September, Decatur. Southeastern production meal was quoted at $75 for November, $77.50 for December, and $81.00 for January-February bulk f.o.b. Mississippi Valley shipping points. The volume of business is still limited, even though feed manufacturers are beginning to step up their usage of soybean meal because of its cheapness compared with cottonseed, peanut and linseed meals.

Waxes

Beeswax—Trading was quiet. Prices were unchanged and ruled steady for crude and refined for spot delivery. Crude African was easy for forward delivery, while stocks on spot were unchanged at 47c. to 48c. per pound, as to quantity. Refined grades also were without change.

Carnauba—Consuming inquiry was more active, but actual trading was confined to limited quantities for immediate delivery. Quotations were unchanged. No. 3 crude was quoted at 94c. to 95c. per pound, and refined, 97c. to 98c. per pound, according to quantity. No. 1 yellow ranged from $1.24 to $1.25 per pound, and No. 2, $1.22 to $1.25 per pound, as to quantity.

Ouricury—Demand was inactive. Prices were easy and nominal at 72c. to 73c. per pound, depending upon quantity.

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2—500 gal. Steel jack., agit. Reactors.

1—Ross 9 x 24 High Speed 3-roll Roller Mill.

3—Oliver Vacuum Filters, incl. 8 x 12', 11'6" x 14', 11'6"x18'.

1—4'6" x 7' A. C. Ball Mill, iron lined.

1—Aluminum Sperry Filter Press, 30" x 30", 45 chambers, 1" cake.

3—Mikro Pulverizers, 2SI, 4TH.

1—Hardinge Rotary Classifier, 6' x 14'.

1—Shriver 30" x 30", jacketed, cast iron, Filter Press, 20 chambers, 1".

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4—Ruggles-Coles Direct Heat Rotary Dryers — Class XF4 — 54" x 25', one Class XF 5' x 40'. Also L-B 2'7" x 10' Roto Louvre; three 3' x 50'; 5' x 30'; 5' x 50'; 6' x 40', 6' x 60', 7' x 70'; 4—6' x 50' Louisville Rotary Steam Tube Dryers.

PULVERIZERS: 3—#5047 Raymond High Side, 4 rolls, one mill equipped with "whizzer" type air classifier and oil journals; mill equipped with Raymond exhausters, cyclones and interconnecting piping, two 50 HP 3/60/2200V motors with each of two mills.

FILTERS: 2—#12 Sweetland Filters for 36 leaves on 4" c/c.

MISCELLANEOUS: 8—Pebble Mills, porcelain-lined, 5' dia. x 4'; 2—6' x 8', 800 gals. each.
6—Devine #28 Vac. Shelf Dryers, each 20 shelves 59" x 78", complete.
10—Shriver 42" x 42", Cast Iron Filter Presses, P & F, 18, 27, 36, 54 chambers, 1" cake.
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8—Horiz. Ribbon Type Powder Mixers—100 lb. to 2,000 lb. sizes.

1—Broughton style A, size 1, horiz. double arm powder mixer, 50 cu. ft.

NOW LIQUIDATING

Manufacturing and packaging equipment of Chemical Manufacturing and Distributing Co., Easton, Pa.
Powder Mixers and Fillers, Scales, Pumps, Tanks, Kettles, 500 gal. Pfaudler glass lined Kettle. (2) 10,000 gal. Vertical Closed Rubber Lined Tanks with 25 HP Turbo Agitators.

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BUY WITH CONFIDENCE

2—Bird 48" S.S. Susp. Style Centrifuges.
1—New Tolhurst 48" S.S. Center Slung Centrifuge.
3—Lee 300 Gal. S.S. Jack. Tanks with D.M. Agitators.
4—S.S. Jack. Kettles, 125 to 150 Gal. with D.M. Agitators.
4—Aluminum Tubular Condensers, 100 and 160 sq. ft.
1—Buflovak 6' dia. Vacuum Crystallizer.
1—Stokes #138 Vac. Shelf Dryer, Six 24" x 36" shelves.
2—Sweetland Filters #10 and #12.
5—Filter Presses 18" to 42" Wd. Plate & Frame.
2—Sperry 36" C.I. & Wood Filter Presses, Hyd. Closures.
2—Shriver 12" & 18" Alum. Plate & Frame Filter Presses.
2—Dopp Cast Iron Kettles, 250 & 800 Gals. with Agitators.
1—Type 347 S.S. 950 Gal. Jack. Kettle.
5—Abbe Jar & Pebble Mills, 1 to 75 Gals.
2—Lab. 3-roller Mills, 2½"x5" and 4"x8".
1—Mikro Bantam SH S.S. Pulverizer.
2—Mikro 2 TH Pulverizers, 10 H.P.
1—Gruendler W.B. Jr. Pulverizer, 10 H.P.
4—Stokes 212C Hi-Vac. Pumps—100 CFM.
1—Rotex Screen, 40"x120"—M.D.
3—Alum. Bubble Cap Columns, 27" & 36".
2—Economic Type Erie City Boilers, 200 H.P., 150# W.P.

Ask for your copy of Bulletin A-30 listing over 500 desirable items. We buy complete plants or individual items.

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533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-4680

After Nov. 1st Our Office and Shops Will Be Located at 107-115 Eighth St., Brooklyn, N. Y.

DRYERS AND KILNS

Devine #12 Vac. Shelf Dryer, 40"x42".
2—Allbr. Nell 4'x9 Atmos. Drum Dryers.
1—Proctor & Schwartz 6 fan automatic 3 apron Conveyor Dryer.
1—Buffalo Vac. Drum Dryer, 24"x20". Also Rotary Vac. Dryers & Vac. Shelf Dryers.
Gehnrich Gas Fired Dryer, 12 trays, 21"x32"
6—Steam, gas & elect. Dryers.
8—Rotary Dryers. Direct & Indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

CENTRIFUGALS AND CENTRIFUGES

6—Tolhurst 40" Suspended Type Centrifugals. Bottom Discharge.
8—Centrifugals, 20", 26", 30", 40" & 48", Steel, Copper. Stainless & Rubber.
11—Sharples No. 5A Stainless Centrifuges, 2 HP. also No. 6.
2—De Laval Multi Clarifiers. 300 & 301.

FILTERS

1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
10—Sperry and Shriver, 12", 18", 24", 30", & 36" iron Filter Presses.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS

2—Pfaudler 500 gal. vert. Glass Lined Tanks.
Dopp 350 gal. agit. Jack. C. I. Vac. Kettle.
Devine 36" dia. Impregnating Unit; closed Jack. Liquor & Impregnating Kettle.
100 gal. Jack. Impregnating Kettle.
1,000 gal. vert. agit. Stainless Steel Tank.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
2—Jack Kettles, 50 to 2500 gals.
1—250 gal. Lead lined Kettle.
Stainless, alum., Copper, Glass Lined, Lead Lined Kettles and Tanks.
New Stainless Tanks. 50 to 500 gals.
4—Steel welded horiz. Tanks, 10,000 & 5,000 gals.
Copper Varnish Kettles. 150 to 300 gals.

PULVERIZERS AND MILLS

2—Abbe Pebble Mills, 24"x33". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P. complete.
2—#0000 Raymond Mills
Hammer Mills & Pulverizers, to 50 HP
1—Sturtevant 42" Rock Emery Mill.
1—Robinson 22" B.B. Attrition Mill.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills. 8"x22", 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
2—U. S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Baker Perkins double arm Mixers, 100, 50, 9 gals. & 4½ gals. Also single arm Mixers.
Lancaster size 3 Pan Mixer 7½ H.P.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x5' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers, 50 to 2,000 lbs.
Day 40 & 15 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers, to 150 gals.

MISC. AND SPECIALS

2—Buffalo 6' dia. vac. crystallizers.
4—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 3".
4—French Oil 400 Ton Linseed & Cottonseed Hydr. Presses.
4—French Oil Motor Driven Expellers.
1—Stokes 2E Paste Filler.
3—Stokes and Day Powder Fillers.
Filling Machines, liquid paste, powder.
Elgin Capper, ½ H.P. Motor driven.
2—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36".
1—Gould 75 HP 2 stage centrif. Pump 250# WP.
4—Stokes Vertical High Vac. Pumps.
2—Worth 12"x12"x12" Vac. Pumps.
6—Devine & Buffalo Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.
Boilers—Gas, Oil & Coal Water Stills.

WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY AND COMPLETE PLANTS

STEIN EQUIP'T CO.
90 WEST STREET, NEW YORK 6, N. Y.
WOrth 2-5745

FMC

TROUBLE FREE EQUIPMENT Already Tested in Operation WHAT DO YOU NEED?

3407	Buffalo Vacuum Chamber Dryer; 20 shelves 40" x 42" with vacuum pump, condenser, receiver, etc.
3259	Horizontal Dryers 66" x 14'7" long; with tracks; 2-1/2" steam pipe with capstan closing doors each end.
1300 McA	2 Struthers Wells Stainless Drum Dryers 5' x 10' complete with accessories.
3026	Buffalo Rotary Vacuum chrome plated Drum Dryer; 5' x 12' with accessories.
3414	Rotary Drum Dryer with steam heated nickel drum; 48" x 46".
2877	Buflovak Double Drum Dryer; 32" x 72" with accessories.
3316	Bagley & Sewell Double Drum Dryer; 28" x 60".
3053	Procter & Schwartz Continuous Apron Dryer; 43'6" long, 7'6" wide, 14'6" high; apron width 36"; complete with accessories.
3418	Adt Class G Rotary Dryer 2' x 15'; indirect Gas heated.
3364	Squier Hexagonal Shell Stainless Atmospheric Dryer; 30" x 20'; stainless feed and aerofins.
3168	Louisville Counter Current Monel Lined Atmospheric Dryer; 38" x 16'.

FRED R. FIRSTENBERG, Pres.

FIRST MACHINERY CORP.
157 Hudson Street
New York 13 N. Y.

REACTORS and AUTOCLAVES

2—Pfaudler 500 and 400 gal. jacketed and agitated glass-lined reactors.

1—F. J. Stokes stainless steel 625 gal. jacketed & coiled vacuum pan or reactor.

7—100 gal. type 347 stainless steel autoclaves or nitrators with Nettco TA-27 drives.

5—2,500 gal. steel reactors, agitated, good for vacuum with internal heating coil.

6—4,000 gal. horizontal steel jacketed and agitated digesters or reaction vessels, ASME coded.

1—600 gal. Bauerle & Morris jacketed copper vacuum still.

1—Unused Kelly 100 gal. lead-lined jacketed reactor.

3—60 gal. stainless steel fully jacketed vacuum pans, one agitated.

5—Barnstead water-stills, 5 GPH up to 75 GPH.

2—J. P. Devine 1,200 and 300 gal. cast iron jacketed and agitated vacuum stills.

CHEMICAL & PROCESS MACHINERY CORPORATION
146 GRAND ST. • NEW YORK 13
WOrth 4-8130

AVAILABLE NOW

CENTRIFUGES

40" perforated, steel, Tolhurst.
40" perforated, SS, Fletcher.
40"x60" Bird, rubber covered.
36"x50" Bird, rubber covered.
24" Bird, CH, SS. series 200.

DRYERS

3'x15', Rotary, Vacuum, jacket'd., SS clad.
Double drum, 32"x72".
Spray, 16'x20'.
Stokes, Rotary, Vacuum, 30"x8', complete.
Blaw-Knox 5'x6' Atmos. single drum.
Proctor & Schwartz, 24"x28'9" Conveyor.
Proctor & Schwartz, 8'x94' SS Conveyor Dryer.
Proctor & Schwartz, 6'x40' Conveyor Dryer.

FILTERS

11'6"x18' Oliver, all steel.
8'x12' Feinc, all steel.
8'x10' Oliver, wood & steel (3).
8'x8' Oliver, lead covered.
5'3"x4' Oliver, steel.
4'x5' Oliver, SS & wood.
3'x4' Oliver, steel.
#7 Sweetland, 2" spacing, 28 leaves.
36", 35 chambers, center feed, open.
12" Sperry, aluminum chambers.

KETTLES—REACTORS

2000 gal. agit., jackt'd., 200 PSI (3).
1300 gal. 6'x6', 60 PSI, U69, SS.
1000 gal. 54"x7'x¾", 300 PSI.
500 gal. Pfaudler, type LL.
400 gal. Pfaudler, jackt'd., agit.

MIXERS

Paddle, double shaft, 140 cu. ft. (NEW).
Readco 1½ SA, 88 gals.
Blystone, 48"x6'7", 500 gals. (2).
Ajax, #3 Super, 173 gals.
Dayton, 100 gals., vert., steel, agit.
3900 gal. jackt'd., ASME (7).
Champion, 110 gals.
Johnson, paddle, 2190 cu. ft. (2).

KILNS—COOLERS—DRYERS

10'x90'x9/16" Allis-Chalmers.
8'x80'x¾" Vulcan.
7'6" & 6'6"x120'x⅜".
7'x160'x⅜" (2).
7'x120'x⅜".
7'x60'x⅜" with lifters.
7'x45'x½".
6'x60'x⅜".
6'x27' Louisville, 4½" SS tubes.
502-20 Rote-Louvre.
5'x67'x5/16" with lifters.
5'x30'x⅜" Ruggles Cole.
4'6"x50'x¼" with lifters.
4'6"x40'x⅜".
4'x35'x½" with burner.

TANKS & PRESSURE VESSELS

135,000 gal. 30'x26' with coils.
30,000 gal. 10'x47' ASME, 50 PSI.
16,000 gal. 96"x45'x¾" WP 150 PSI, ASME.
15,000 gal. 10'6"x23'x¼" or 5/16" (NEW).
12,000 gal. 8'x32'x¼" (NEW).
8,500 gal. vert. 8'x23'x5/16" (NEW).
8,200 gal. 70"x40'x2" 390 PSI (4).
6,000 gal. 8'x15'x⅜" aluminum (2).
4,100 gal. vert. 5'x28'x¼" (NEW).
3,400 gal. 7'4"x10'x⅜", type 430 SS.
1,250 gal. 4'x14', 106 PSI.
1,200 gal. 42"x16'8"x5/16", 125 PSI.
1,050 gal. 4'x12'x½", 106 PSI.
480 gal. 4'x5', wood (NEW).
6,500 gal. TANK CAR TANKS.

TANKS—LEAD LINED

525 gal. 42"x7', agitated.
900 gal. 5'x6', agitated.
1,200 gal. 5'x8'.

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Heat and Power Co., Inc.
70 PINE STREET | HANOVER 2-4890 | NEW YORK 5, N. Y.
MACHINERY & EQUIPMENT MERCHANTS

NEW MOTORPUMPS to 700 gpm.
PEBBLE MILLS—Lab, 30x33 to 6'x8', Ball, 24x18, w/motors.
HAMMER MILLS—Wms. LG. 1—Reg. #1—8X825—GA30—w/motors.
SCREENS—Grt. Wstrn, 8" Lab, Hummer 3x5—single, double, triple deck.
FILTER PRESSES—24" w/28 p&f, clsd. del.—30" w/26 & 29 p&f open wash.
JAW CRUSHERS — 8x14 — 11x20 — 14x28—24x36.
ALUMINUM KETTLES—Agitated, jacketed—250—450 gal.
FORK LIFT—Tow Motor, 4,000# Gasoline.
ROTARY KILNS — 30"x17', 4'x30', 5'x40', 6'x80'.
CONDENSER — Copper tube, unused, 12"x88", steel 24"x20'.
CENTRIFUGES—Tolhurst 26", 40", 48", Laughlin B, B-4 Cont.

LAWLER COMPANY
LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

GO WEST-BUY BEST

New Oliver 3' x 6' Precoat Vacuum Filter.
Raymond 5 Roller High Side Mill.
Raymond 6' Double Whizzer Separator.
1,000 Gal. Pfaudler "X-L" Reactor. Agit.
Dings Type I-R Magnetic Seprtr. 3 roll 30".
2—5' x 22' Silex Lined Tube Mills. 100 HP.
New Sharples PY-14 Super-D-Canter. S.S.
3—Calif. Press S.S. Screw Presses. 4' screw.
A T & M 30" Solid Steel Bas. Centrifuge.
Buflovak 42" x 108" Double Drum Dryer.
Eimco 8' x 8' Rotary Vacuum Filter.
Oliver 5'6" x 10' Rotary Vacuum Filter.
Shriver 30" C. I. Filter Press, 29 pits. frms.
Rotex No 52 Screen, 2 deck, 60" x 120".
New Fletcher 40" Cent. Steel basket.
Sperry 18" bronze Filter, 25 rec. pits.
2,500 Gal. Monel Vacuum Tank. New.
2,500 Gal. S.S. Vacuum Pan. Complete.
2 Stokes High Vacuum Pumps.
Sweetland No. 7 Filter, 41 br. leaves.
Rietz Disintegrator, RD-18, 100 HP motor.
Moore 4' x 5' Ball Mill, 15 HP gearhd motor.
40 HP Hammermill, infeed screw & hopper.
Abbe Lenhart Liquid Mixer, 330 Gal. 30 HP.
Vulcan Briquetting Press, 10-12 tons PH.
Worthgtn. Vac. Pump. 18"x9", 421 CFM 27".

OVER 10,000 ADDITIONAL ITEMS

MACHINERY AND EQUIPMENT CO.
514 BRYANT STREET SAN FRANCISCO 7, CALIF.

Archer-Daniels Appoints Geo. Brandt Sales Agent

George C. Brandt, Inc., has been appointed sales agent for Archer-Daniels-Midland Company, Minneapolis, Minn., for Denver and the state of Colorado. Brandt will handle all Archer-Daniels drying oils, fatty acids, paint specialties and Pol-mer-ik linseed oil in this area.

Brandt plans to open a Denver sales office and warehouse on January 1. Prior to that date, accounts in the Denver and Colorado area will be served from the Brandt office and warehouse, located at 1401 Trafficway, Kansas City, Mo. Brandt will also have the agency for Archer-Daniels products in Kansas, Nebraska and the western half of Missouri. The Denver office will be headed by David Brandt.

IMC Central Group Post Goes to Frederick Winant

The appointment of Frederick Winant as US representative to the central group of the International Materials Conference was announced November 3 by Henry H. Fowler, head of the Office of Defense Mobilization and of the Defense Production Administration. Mr. Winant, whose appointment was effective October 31, succeeds James F. King who has served in that post since April 23.

Mr. Fowler said Mr. King is relinquishing his IMC post because of the pressure of his other duties as DPA deputy administrator for construction and resources expansion and as assistant to the director of ODM. Mr. Winant has been acting as Mr. King's deputy in the IMC and is DPA director of international activities. Sherman S. Sheppard, DPA assistant director of international activities, has been appointed to succeed Mr. Winant as deputy US representative to the central group.

Brown Appoints Two

Edward G. Brown, president of Brown Chemicals, New York, has announced the appointment of W. D. Hodges as New England representative, and the appointment of Tom F. McAdams as sales representative to assist Dan D. Downes, sales manager.

Mr. Hodges' office is in the Colonial Building, 100 Boylston street, Boston. Mr. McAdams will be at New York headquarters, 15 Moore street.

Sulphur Use Limitations

—Continued from page 3

serve in the National Production Authority.

Cooperation of Industry Cited

"When sulphur was critically short, NPA limited consumption in order to safeguard stockpiles and to hold back enough sulphur to meet all essential needs. Consumers cooperated by devising methods of conserving sulphur, and producers undertook a great many projects to increase the supply.

"Now that we again have sufficient sulphur to meet the demand, the controls on consumption no longer are necessary. NPA has acted promptly and wisely in removing them. This action constitutes an important step toward the return of a free economy."

NPA also announced that sulphur has been deleted from the list of materials under inventory limitations provided for in NPA regulation No. 1. This technical change was made in order that NPA regulation No. 1 will conform with the action revoking M-69.

Keep 'em rolling . . . not rusting

For Sale

Steel storage tanks and complete tank cars, 6,500 to 12,000 gallons capacities, coiled and non-coiled.

Marshall Railway Equipment Corporation
50 Church St., New York 7, N. Y., CO 7-8090
Cable MARAILQUIP

FOR SALE

2—Motor Driven #251 Mikro Pulverizers, Practically Brand New.
1—Baker-Perkins 100 Gal. S.S. Mixer, double-arm, sigma blades, motor driven.
1—Day #2 75 Gal. Brighton Mixer.
5—Pebble Mills, 40 to 500 Gal.
10—Pony Mixers, 8, 15, and 40 Gal.
1—Eppenbach Stainless Steel Homo Mixer with a 7½ hp Explosion-Proof Motor. HIGH SPEED Roller Mills, 9"x24" to 16"x40".
3—8" Premier Colloid Mills, watercooled.

Specializing in Rebuilt Machinery
IRVING BARCAN COMPANY
249 Orient Ave., Jersey City 5, N. J.
DElaware 2-6695-6

FMC
Remanufactured — Redesigned EQUIPMENT
To Fit Your Specific Needs!

3513 Premier Stainless Steel 3" rotor Type UB5 with 5 HP motor.
3397 Eppenbach QV6" Colloid Mill with 5 HP motor.
1699 U.S. L2 Stainless Steel 3-1/4" Mill with 2 Motors 3 HP.
3315 E1 Premier Type U3-10" S.S. Colloid Mill with 30 HP.
3272 L1 Premier L 15 ... 15" Colloid Mill with 30 HP motor.
3497 S1 Tolhurst 26" Suspended Type Steel Centrifugal; plow discharge.
3497 S3 Tolhurst 40" Everdur basket; suspended; plow discharge; 2 speed motor.
4 Mc 1152 Bird 12" Rubber and Lead Lined Centrifuge with imperforate and perforate baskets; 1 HP 1750 RPM.
8S177-178 Two Bird Rubber Covered 48" Suspended Type Imperforate Basket; with 40 HP 2 Speed Motors.
3240 M3 Sharples Supercentrifuge Type M84-21-IJY stainless with 3 HP.
2540 C2 Sharples Steel Centrifuge Type M4P-IJ 15000 RPM.
3269 Sharples De-Waxing Centrifuge; Type DM202-23C.

FRED R. FIRSTENBERG, Pres.
FIRST MACHINERY CORP.
157 Hudson Street
New York 13, N. Y.

EQUIPMENT for CHEMICAL AND ALLIED INDUSTRIES

1—Baker Perkins Stainless Steel Jacketed Dispersion Mixer, 100 gal. Working Capacity, 75 HP Drive.
1—Combustion Engineering Stainless Steel Autoclave, 488 gals. cap., 300 PSI Internal, 75 lbs., Jacketed, ASME constructed.
1—Patterson Stainless Steel Autoclave, 225 gals. cap., 225 PSI Internal with Agitator and Drive.
20—Stainless Steel Jacketed Kettles, 380 gals. cap.
1—Lee Stainless Steel Jacketed Kettle, 10 gals. cap., 125 PSI Jacketed.
1—Pfaudler Glass-Lined Jacketed Vacuum Reactor, 500 gals. cap.
1—Glascote Glass-Lined Jacketed Vacuum Reactor, 1,600 gals. cap.
3—Stainless Steel Storage Tanks, 850 gals. cap. each.
1—Stainless Steel Storage Tank, 16,000 gals. cap.
1—Baker Perkins Stainless Steel Jacketed Vacuum Mixer, Size 4, Sigma Blades with Motor, 0.7 gals. working cap.
2—Shriver Cast Iron 24" x 24" Plate & Frame Filter Press, 3 Eye, Closed Delivery, 23 Chambers each.
1—L. O. Koven Stainless Steel Clad Tank, 1,200 gals. cap.
1—J. H. Day Vacuum Mogul Mixer, 2½ gals., Sigma Blades with 5 HP Explosion Proof Motor.
1—Struthers-Wells Hastelloy B Heat Exchanger, 450 sq. ft.
2—Downington Stainless Steel Heat Exchanger, 500 sq. ft. each.
1—Vulcan Rotary Kiln, 7' x 120'.
1—Stokes Vacuum Shelf Dryer, Model #138-H-12, 12 Shelves.
1—J. P. Devine Vacuum Shelf Dryer, 9 Shelves.
2—Buflovak Vacuum Shelf Dryers, 20 Shelves.
1—Louisville Rotary Steam Tube Dryer, 6' x 50'.
3—Shriver Aluminum Plate & Frame 24"x24" Filter Presses, Closed Delivery, 35 Chambers.
1—Sperry Aluminum Plate & Frame 42"x42" Filter Press, 3" Frames, Closed Delivery.

R. GELB & SONS, INC.
UNION, N. J. Est. 1886 Unionville 2-4900

Mills: Lehman 5 roll water cooled 12x32.
Paint Mixers: O&T, Kestner & Hecht, Day.
Paint Mills: Day, Lehman, etc., solid rolls.
Pwdr. Mixers: ribbon, tumbler, 50 to 3000#.
Dough Mixers: sgl. or dbl. arm, pl., jktd.
Fillers: powder, liquid, paste.
Kettles: stainless, steel—jktd., plain.
Labelers: spot, can—auto. semi.
Baker Perkins Mixers, style VIH, jktd., tilting, 100 gal. working capacity.

Highest class reconditioning—done in our own shops. We also purchase entire plants or single items.

NEWMAN TALLOW & SOAP MACHINERY CO.
1051-1059 W. 35th St. Chicago 9, Ill.

FOR SALE

Pebble Mills: 5 gal. to 250 gal.
Pulverizers: Micro SH, 1SI, 2TH.
Vacuum Pans: 6' stain. steel, 5' copper.
Powder Mixer: Day, 66 cu. ft., jktd.
Clarifiers: Sharples Vaportite st. steel.
Centrifugals: 26" and 30" Tolhurst.
Mixer: Read dbl. arm, 380 gal., st steel.
Disintegrator: Rietz 40 hp.
Clarifiers: De Laval 84-51 motor dr.
Filter: Oliver 3'x4', Everdur, con.
Vacuum Pumps: Nash AL-6 and H5.
Press: Davenport 3-A, Durimet con.
Mill: 12x24' Farrel-Birmingham 25 hp.
Dryer: American 42x120" double drum.
Vacuum Pan: Stokes 25 gal st steel, jacktd
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Colloid Mills: Premier, Charlotte—st steel
Tanks: 3,000 gal. vert. dairy gl. lined jktd.

LOEB EQUIPMENT SUPPLY CO.
1925 W North Ave. Chicago 22, Ill.

POLYETHYLENE DRUM LINERS

Case Liners and Bags of All Sizes

CANTON CONTAINERS, Inc.
1101 NINTH ST. S. E. • CANTON, OHIO

NEW AND GOOD-AS-NEW EQUIPMENT

#316 Stainless Steel Tanks, new, 100, 200 & 360 gal.
1—Stainless Tank #430 Chrome, vert., 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—J. H. Day Steam Jacketed 50 gal. Sigma Blade Mixer.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 18"x18" & 24"x28".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 100 gpm.
1—Jeffrey Vibrating Conveyor 15' lg. 12' wide.
1—Buflovak Jacketed Impregnating Tank 42"x32".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
1—Model 16 Sharples Stainless Steel Centrifuge.
3—New Drum Rollers.
1—A. F. Bartlett Hog Mill & 7½ H.P. Motor.
1—Sweetland Filter No. 5—15 leaves.
3—Stainless Steel Jacketed Filters.
2—Plate & Frame Filters 25"—open del.
4—Tanks 100,000 gals. each.
1—Shriver 18" Aluminum Filter 9-plates, 9-frames.
4—Stokes Rotary Tablet Machines RD4.
10—New Sharples Oil Purifiers.

SPECIAL: 9—Horizontal Steel Tanks 12' x 22'—46,647 mls. each
2—Boilers, Scotch—200 H.P. each with Oil Burners.
1—Abbe Pebble & Tube Mill 5'x22'—Burr-Stone Lined.

H. LOEB & SON :-: 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

Business Wants and Offers

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NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER
30 Church st. New York 7 N Y

BUSINESS OPPORTUNITIES

Woolgrease tenders marked "Tenders for Woolgrease" are hereby invited by the undersigned, and will be received up to 30th November, 1952, for their 1953 output of Woolgrease, which varies from 10 to 25 tons per annum. Full particulars, including detailed analysis, may be obtained on application to the undersigned. The highest or any tender not necessarily accepted. Edkins, Marsh & Co., Ltd., Ilfracombe, Queensland, Australia.

EQUIPMENT OFFERED

Tank, 18/8 Stainless Steel, 1000 gal. cap., interior #4 polish, sanitary, good for full vacuum, horizontally mounted, shell jacketed. Five Lastiglas lined tanks, one piece, horizontal. 5300 to 7500 gal. cap. L. E. Glick & Co., 626 Broadway, Cincinnati 2, Ohio.

Filler Machine, Philadelphia, Model B, Single Cylinder, semiautomatic, stainless hopper, fills tubes or jars, like new, $650.00. Mixer, ½ HP, Gearhead, 300RPM, 220/440, 3 phase, $125.00. Blackford Manufacturing Company, Hartford City, Indiana.

Stokes High Vacuum Pumps 212C, unused, water-cooled, 100 cfm; V-drive. Satisfaction guaranteed. Only a few left Price very reasonable, inspect. American Sales Co., 198-11 Hollis Avenue. Hollis 12, N Y HOllis 9-7200.

EQUIPMENT WANTED

Chemical Laboratory Benches & Equipment Wanted. Submit detailed offers. OPD 628.

Chemical Equipment wanted for defense plant work including autoclave, centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 604.

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3333	Sprout Waldron Double Ribbon Mixers; 233 cu. ft.; 5' x 10'.
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3474	Stainless Tumbling Batch Mixer; 25" x 5'9" with Motor.
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M29-207	Eisenmueller 4000 lb. Dry Mixer; 4' x 12'; 25 HP motor.
M29-206	Patterson Conical Blender, 135 cu. ft.; 15 HP motor.
3427-P5	Marquette Paddle Mixer; 24" x 12'. Vertical Powder Mixer, continuous or batch; 40" x 84".
3350	J. H. Day Jumbo Mixer; 44" x 78" complete with motor.
M29-111	J. H. Day Stainless 5 Gal. Double Arm Jacketed Mixer with Vacuum Cover.
3295 E 5	Baker-Perkins 50 Gal. Double Arm Jacketed Mixer—15 HP.
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Pentachlorophenol in oil—8%. 4000 gallons in 53 gallon drums. If interested, please make offer. OPD 607

MATERIALS WANTED

Do not wait until conditions further limit prospects of disposing of top-heavy inventories; will purchase surplus unshipped commodities, all kinds. Particularly interested in pigments, chemicals, dyes, colors, waxes, drugs, pharmaceuticals, etc. OPD 620.

POSITIONS OFFERED

Large eastern bulk drug manufacturer offers a splendid opportunity in the Philadelphia area for a man with the necessary qualifications. Applicant should have pharmacy or chemical background and preferably at least two or three years of sales experience; must also be in position to do a limited amount of travelling. Reply should cover details of past experience and salary range expected. OPD 619.

Purchasing Department of oil concern in New York City, established over 50 years, has excellent opening for experienced assistant. Permanent position with opportunity for advancement; preference given married man; state fully experience, age, salary expected, etc. OPD 621.

Chemical Trader wanted to buy and sell protective coating materials, solvents, surplus chemicals, etc. A small trader offers financial backing with profit-percentage for an experienced man. All replies strictly confidential. OPD 624.

Chemical Engineer N.Y.C. expd Production of fine Organic Chemicals, 100-1000 lb. lots, full knowledge Equipment & Installations. State background, salary. OPD 626.

Bergen County, New Jersey, chemical plant operating seven days per week has opening for man under sixty with necessary ability and background to assist the General Plant Manager in production problems and labor interviewing. Write details of past experience and salary requirements to OPD 610.

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Chemical Engineer B.C.H.E. desires responsible position in pharmaceutical, chemical or allied industry. Offers 10 years diversified experience in plant development, process engineering and production. Currently employed in like capacity. OPD 623.

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Large importers handling complete line of bulk pharmaceuticals interested in representatives calling on pharmaceutical manufacturers. Write in full confidence. OPD 625.

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NPVLA Shapes Plans

—Continued from page 7

Frank P. Connolly, chairman, color promotion subcommittee; "Meeting Competition of Materials Claimed to Be Replacement for Paint," William E. Hood, regional vice-president; "The 'Do-It-Yourself' Market for Paint Products," Bernard Mautz, vice-president; "Water — The Hidden Menace to Homes and the Association's Program to Combat the Menace to Paint Sales," Robert J. Smith, chairman, scientific section committee, and "How Can the Industry Expand the Clean Up—Paint Up—Fix Up Program?" Walter G. Sibley, chairman, clean up—paint up—fix up committee.

The roof coating manufacturers' forum will also be held at this time, with H. R. Allison presiding. The following papers will be offered:—"How Can We Promote Sales Through Better Merchandising?" Mr. Allison; "Federal and State Specifications for Roof Coatings"; "Common Problems of Roof Coatings and Their Correction," D. G. Marler, and "What Can the Roof Coating Manufacturer Do to Support the Association's Program, 'Water—The Hidden Menace to Homes?'"

Wholesale Distributors' Meeting

The annual meeting of the wholesale distributors' division will also be held the morning of November 18. C. B. French will preside and James Reardon will speak on "Services by Wholesalers to Retailers." A panel discussion will follow with Mr. French as moderator. The following papers will be presented:—"Merchandising Plans for Sundry Items," H. R. Allison; "Economical Delivery Service," Leo B. Hollein, and "Increasing Brush Sales," Isidor Rubin. Another panel will be held with C. H. Hoult acting as moderator. These papers will be presented:—"Sales Training As Aid to Business," Robert Bordeau; "Improving Wholesalers' Services," by a speaker to be announced, and "New Phases of Merchandising," John Uhlarik. Following this, Dr. Frank Monaghan will speak on "Clean Up—Paint Up—Fix Up."

On the closing day, a general session will be held with Ernest T. Trigg, past president, presiding. Hiram P. Ball, president of the Federation of Paint and Varnish Production Clubs, will speak on "Federation Activities" and C. Homer Flynn, executive secretary of the federation, will talk on "Color Aptitude Test." Ralph S. Trigg, senior deputy administrator, Defense Production Administration, will address the group on "Controls for Defense."

Zinc, Mercury, Cryolite

—Continued from page 3

pounds by January 1, 1954. This represents an expansion of 150,000,000 over the capacity of 420,000,000 pounds existing in 1951. DPA said sufficient tax amortization has already been approved to fill this goal.

The goal for battery and chemical grades of manganese ore has been set at a combined total of 110,000 long tons in 1954, at least two-thirds of which should qualify as battery grade. This will increase the annual supply of this ore by 23,000 long tons over the 87,000 ton supply in 1950.

Two metal can expansion goals, one of them a revision of a previous goal, have been set in order to increase metal can production capacity and to encourage conservation of tin on metal can production lines, DPA asserted. To date no tax amortization has been approved toward filling either of these goals.

The goal for metal cans has been set at an annual rate of 4,700,000 tons of metal can shipments by January 1, 1956, representing an increase of 800,000 tons. The revised goal for metal can manufacture—tin conservation has been set at $31,000,000 of capital investment to convert by January 1, 1956, metal can manufacturing facilities to the manufacture of metal cans using less tin. This revised goal includes the $5,500,000 of capital investment established by a previous interim goal announced in August.

Chemical Supply

—Continued from page 3

form; copper-8-hydroquinolinolate; diphenylamine; ethanolamines; ethyl cellulose; ethylene dichloride; ethyleneglycol; ethylene oxide; Freon (except Freon 22 in group 2); hexylresorcinol; isopropyl alcohol; melamine; melamine resins; methacrylate; methanol; methyl bromide; naphthenic acid; nicotinic acid; paradichlorobenzene; phenolic resins; polyester resins; polystyrene; polyvinyl; polyvinyl acetate; polyvinyl alcohol; polyvinyl butyral; polyvinyl chloride; polyvinylidene chloride and copolymer resins; resorcinol resins; urea resins, and xylene.

Aluminum Outlook Detailed

Changes in the nonferrous listings were confined to softenings of iridium (group 1 to group 2) and osmium (group 2 to group 3). Aluminum production was said to be still suffering a setback because of droughts in the Pacific northwest and Tennessee Valley. Samuel A. Anderson, deputy administrator of DPA for aluminum, said that the aluminum supply will be tight through the first quarter of 1953 unless these areas soon get some heavy rainfalls. Increased water supplies and the completion of new plants, however, should improve substantially aluminum output beginning in the second quarter of next year, he said.

Supplies of foreign raw copper increased substantially during the third quarter of 1952, Paul Andrews, director of the National Production Authority's copper division, said. However, refined copper from domestic ores and scrap declined, as did receipts of copper and copper-base alloy scrap by mills and foundries. As for steel, John E. Timberlake, director of NPA's iron and steel division, said that the steel industry is staging a rapid comeback from its strike this year and that iron ore shipments, which currently are greater than expected, will continue to assist in minimizing the effect of the strike through the first quarter of 1953.

Among miscellaneous items which reflected the general softening were the shifts of acid-grade fluorspar, high carbon amorphus lump graphite and Indian kyanite from group 1 to group 2. Artificial graphite, phlogopite and Muscovite mica splittings, sillimanite refractories, rutile and both ground and Indian black, lava grades of talc were moved from group 2 to group 3. Chemicals were listed by groups as follows:—

Group 1

Acetylene; alkyl and aromatic substituted phenolic resins, alpha picoline; ammonia anhydrous; argon; beta gamma picoline; calcium carbide; cobalt salts and driers; isoncotinic acid; lithium chemicals; lithium metal; nickel chemicals; oxygen; paraphenylphenol; para-tertiary butyl phenol; polymonochlorotrifluoroethylene; pyrethrum; pyridin; *selenium compounds (from electrolytic copper sludges); toluene, and Urea, feed and fertilizer grades.

*This means the element selenium in chemical combination with one or more other elements as prepared by a producer from electrolytic copper sludges.

Group 2

Adipic acid; alkyl polysulphide polymers; allethrin; butadiene; carbon disulphide; chlorine; chrome green; chrome molybdate orange; chrome orange; chrome yellow; cyclohexanol; ethyl chloride; Freon 22; glycerin; iron oxide, yellow; lead chromate; nitric acid; parachlorophenol; pine oil; sulphuric acid, and titanium pigments.

Group 3

Barium chemicals; benzene hexachloride (BHC); bis-phenol; calcium arsenate; carbon tetrachloride; casein; charcoal; copper chemicals; DDT; dihydroxydichlorophenylmethane; hydrofluoric acid and derivatives; hydrogen peroxide; maleic anhydride; methylene chloride; naphthalene; nicotine sulphate; normal octyl alcohol; nylon, plastic type; paranitrophenol; perchloroethylene; phosphate plasticizers; phthalic anhydride; polyethylene; polyethylene resins; polytetrafluorethylene (Teflon); rotenone; sebacic acid (refined); selenium compounds (other than group 1); sodium chlorate; sodium cyanide; sodium metal; sulphadiazine; sulphathiazole; sulphur; trichloroethylene; zinc ammonium chloride, and zinc chloride.

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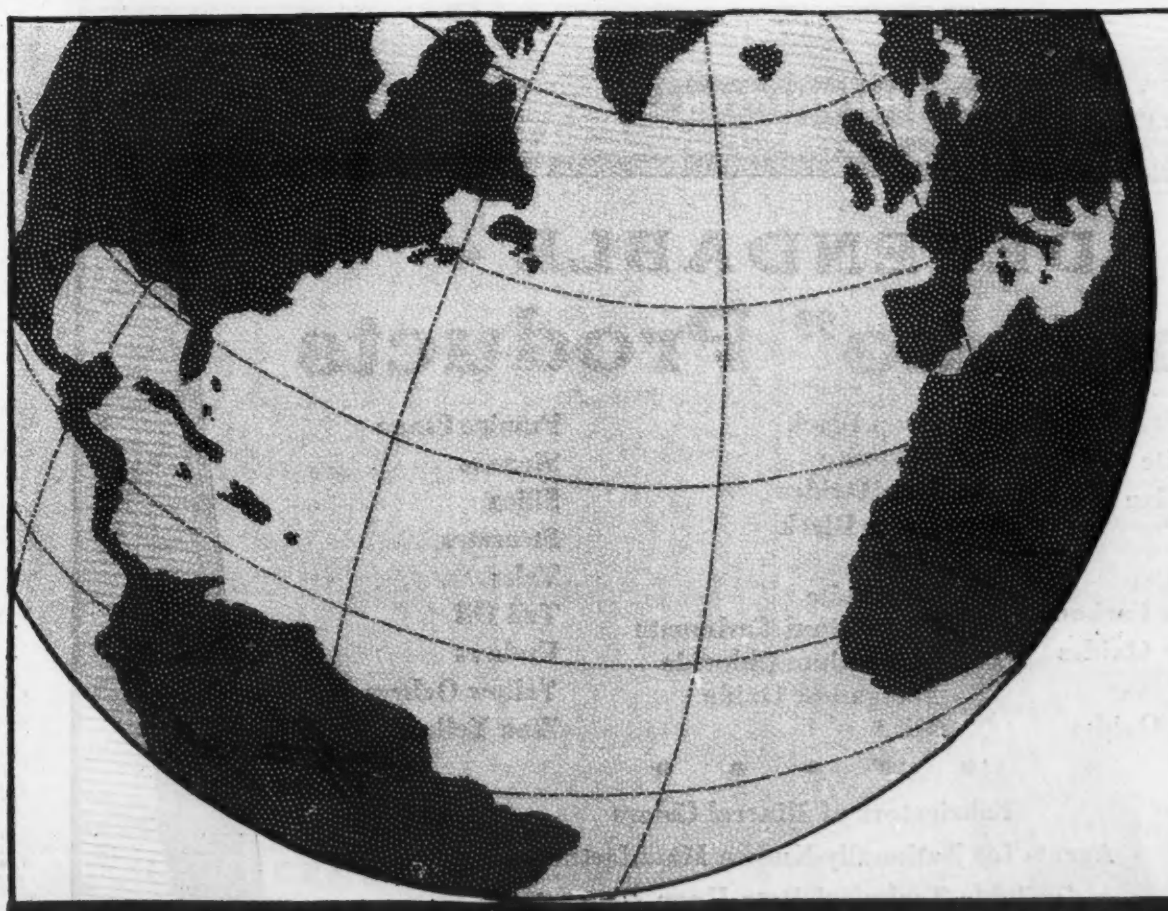
Darthronol, Heptuna Capsuls To Get Duty Reclassification

The Bureau of Customs announced November 7 that it plans to reclassify darthronol and heptuna capsuls to make them subject to a higher rate of duty and gave interested persons thirty days to submit their comments on the matter.

These products composed in part of niacinamide and riboflavin derived from coaltar are presently dutiable under paragraph 23 of the Tariff Act of 1930 at the adjusted rate of 12½ percent ad valorem. The bureau proposes to change the classification to paragraph 28 (a) of the act at an adjusted duty rate of 25 percent ad valorem plus 3½ cents per pound.



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